

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party El Paso Natural Gas Company L.L.C.	OGRID 7046
Contact Name Cesar G Ochoa	Contact Telephone 915-345-6605
Contact email cesar_ochoa@kindermorgan.com	Incident # (assigned by OCD) nRM2035141458
Contact mailing address 8645 Railroad Dr, El Paso TX 79904	

Location of Release Source

Latitude 32.07934584 Longitude -106.71262685
(NAD 83 in decimal degrees to 5 decimal places)

Site Name EPNG's Line 1103	Site Type Existing steel natural gas pipeline
Date Release Discovered 11/23/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
F	02	26S	2E	Dona Ana

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe) Hydrostatic Test Water	Volume/Weight Released (provide units) 18,000 to 20,000 gallons approximately	Volume/Weight Recovered (provide units) Approximately 13,000 gallons. Recovered water on the ditch.

Cause of Release

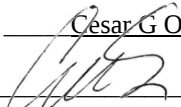
During Spike test project on the EPNG 1103 line, EPNG personnel was conducting drying activities after hydrotest was completed on section 1, two foam pigs were stuck on the line on a low section. A poly pig was used to release the foam pigs. Apparently, the line still had water from the hydrotest and when the pigs were released, they came out on the catch area with approximately 18,000 to 20,000 gallons of hydrotest water. Some water was contained on the catch basing ditch area but most of the water traveled approximately one half mile in total on the sloping side of Afton road approximately three feet wide on each side of the road. Pipeline was rinse prior to hydro test. There was no impact to any water body. Volume calculations were estimated based on size of ditch (15ftx20ftx6ft= 1800 cubic ft.= 13,338gallons) and the travel distance (2640ftx6ftx.05ft=792 cubic ft.= 5,861 gallons). Estimated total 13,338+5,861=19,199 gallons. Soil samples were collected from different impacted areas. No contamination is shown on the results.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Unauthorized release was greater than 25 barrels
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Left a voicemail for Brandon Powell at (505) 320 0200 on 11/23/20 at 10:26 am by Cesar G Ochoa Left a voicemail for Mike Bratcher at (575) 626 0857 on 11/23/20 at 11:04 am by Cesar G Ochoa Email to Mike Bratcher on 11/23 at 4:23 pm	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Cesar G Ochoa</u>	Title: <u>EHS Engineer II</u>
Signature: <u></u>	Date: <u>12/18/2020</u>
email: <u>cesar_ochoa@kindermorgan.com</u>	Telephone: <u>915-345-6605</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>21.8</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

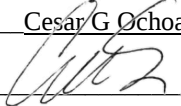
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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Printed Name: Cesar G Ochoa Title: EHS Engineer IISignature:  Date: 4/30/2021email: cesar_ochoa@kindermorgan.com Telephone: 915-345-6605**OCD Only**

Received by: _____ Date: _____

Incident ID	
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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Cesar G. Ochoa Title: EHS Engineer II
Signature:  Date: 4/30/2021
email: cesar_ochoa@kindermorgan.com Telephone: 915-345-66-50

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	
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Application ID	

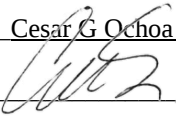
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Cesar G Ochoa Title: EHS Engineer II
Signature:  Date: 4/30/2021
email: cesar_ochoa@kindermorgan.com Telephone: 915-345-6605

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, El Paso
200 East Sunset Rd.
Suite E
El Paso, TX 79922
Tel: (915)585-3443

Laboratory Job ID: 830-318-1

Client Project/Site: L1103 Spike Test

For:

Kinder Morgan - El Paso Natural Gas Company
12600 McCombs
El Paso, Texas 79934

Attn: Cesar Ochoa

Holly Taylor

Authorized for release by:
4/27/2021 11:43:57 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Laboratory Job ID: 830-318-1

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Definitions/Glossary

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, El Paso

Case Narrative

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Job ID: 830-318-1

Laboratory: Eurofins Xenco, El Paso

Narrative

Job Narrative 830-318-1

Comments

No additional comments.

Receipt

The samples were received on 4/21/2021 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 13.4° C.

GC/MS VOA

Method 8260C: Internal standard (ISTD) response for 1,4-Dichlorobenzene-d4 for the following sample was outside acceptance criteria: S2-2 (830-318-4). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Client Sample ID: S1

Lab Sample ID: 830-318-1

Date Collected: 04/21/21 09:30

Matrix: Solid

Date Received: 04/21/21 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000994	U	0.000994	mg/Kg		04/22/21 15:47	04/23/21 00:34	1
Toluene	<0.00497	U	0.00497	mg/Kg		04/22/21 15:47	04/23/21 00:34	1
Ethylbenzene	<0.000994	U	0.000994	mg/Kg		04/22/21 15:47	04/23/21 00:34	1
m,p-Xylenes	<0.00199	U	0.00199	mg/Kg		04/22/21 15:47	04/23/21 00:34	1
o-Xylene	<0.000994	U	0.000994	mg/Kg		04/22/21 15:47	04/23/21 00:34	1
Xylenes, Total	<0.00199	U	0.00199	mg/Kg		04/22/21 15:47	04/23/21 00:34	1
Total BTEX	<0.00497	U	0.00497	mg/Kg		04/22/21 15:47	04/23/21 00:34	1
MTBE	<0.00497	U	0.00497	mg/Kg		04/22/21 15:47	04/23/21 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		56 - 150	04/22/21 15:47	04/23/21 00:34	1
4-Bromofluorobenzene (Surr)	105		68 - 152	04/22/21 15:47	04/23/21 00:34	1
Dibromofluoromethane (Surr)	104		53 - 142	04/22/21 15:47	04/23/21 00:34	1
Toluene-d8 (Surr)	100		70 - 130	04/22/21 15:47	04/23/21 00:34	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5	mg/Kg		04/23/21 12:15	04/23/21 19:23	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5	mg/Kg		04/23/21 12:15	04/23/21 19:23	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		04/23/21 12:15	04/23/21 19:23	1
Total TPH	<49.5	U	49.5	mg/Kg		04/23/21 12:15	04/23/21 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		65 - 130	04/23/21 12:15	04/23/21 19:23	1
o-Terphenyl	96		65 - 130	04/23/21 12:15	04/23/21 19:23	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg		04/26/21 08:07	04/26/21 15:53	1

Client Sample ID: S1-2

Lab Sample ID: 830-318-2

Date Collected: 04/21/21 09:30

Matrix: Solid

Date Received: 04/21/21 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990	mg/Kg		04/22/21 15:47	04/23/21 00:54	1
Toluene	<0.00495	U	0.00495	mg/Kg		04/22/21 15:47	04/23/21 00:54	1
Ethylbenzene	<0.000990	U	0.000990	mg/Kg		04/22/21 15:47	04/23/21 00:54	1
m,p-Xylenes	<0.00198	U	0.00198	mg/Kg		04/22/21 15:47	04/23/21 00:54	1
o-Xylene	<0.000990	U	0.000990	mg/Kg		04/22/21 15:47	04/23/21 00:54	1
Xylenes, Total	<0.00198	U	0.00198	mg/Kg		04/22/21 15:47	04/23/21 00:54	1
Total BTEX	<0.00495	U	0.00495	mg/Kg		04/22/21 15:47	04/23/21 00:54	1
MTBE	<0.00495	U	0.00495	mg/Kg		04/22/21 15:47	04/23/21 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		56 - 150	04/22/21 15:47	04/23/21 00:54	1
4-Bromofluorobenzene (Surr)	111		68 - 152	04/22/21 15:47	04/23/21 00:54	1
Dibromofluoromethane (Surr)	100		53 - 142	04/22/21 15:47	04/23/21 00:54	1
Toluene-d8 (Surr)	101		70 - 130	04/22/21 15:47	04/23/21 00:54	1

Eurofins Xenco, El Paso

Client Sample Results

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Client Sample ID: S1-2

Lab Sample ID: 830-318-2

Date Collected: 04/21/21 09:30

Matrix: Solid

Date Received: 04/21/21 10:40

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		04/23/21 12:15	04/23/21 20:18	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		04/23/21 12:15	04/23/21 20:18	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		04/23/21 12:15	04/23/21 20:18	1
Total TPH	<50.3	U	50.3	mg/Kg		04/23/21 12:15	04/23/21 20:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		65 - 130			04/23/21 12:15	04/23/21 20:18	1
o-Terphenyl	90		65 - 130			04/23/21 12:15	04/23/21 20:18	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.6		9.96	mg/Kg		04/26/21 08:07	04/26/21 16:04	1

Client Sample ID: S2

Lab Sample ID: 830-318-3

Date Collected: 04/21/21 09:33

Matrix: Solid

Date Received: 04/21/21 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 01:15	1
Toluene	<0.00502	U	0.00502	mg/Kg		04/22/21 15:47	04/23/21 01:15	1
Ethylbenzene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 01:15	1
m,p-Xylenes	<0.00201	U	0.00201	mg/Kg		04/22/21 15:47	04/23/21 01:15	1
o-Xylene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 01:15	1
Xylenes, Total	<0.00201	U	0.00201	mg/Kg		04/22/21 15:47	04/23/21 01:15	1
Total BTEX	<0.00502	U	0.00502	mg/Kg		04/22/21 15:47	04/23/21 01:15	1
MTBE	<0.00502	U	0.00502	mg/Kg		04/22/21 15:47	04/23/21 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		56 - 150			04/22/21 15:47	04/23/21 01:15	1
4-Bromofluorobenzene (Surr)	109		68 - 152			04/22/21 15:47	04/23/21 01:15	1
Dibromofluoromethane (Surr)	106		53 - 142			04/22/21 15:47	04/23/21 01:15	1
Toluene-d8 (Surr)	102		70 - 130			04/22/21 15:47	04/23/21 01:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		04/23/21 12:15	04/23/21 20:37	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		04/23/21 12:15	04/23/21 20:37	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		04/23/21 12:15	04/23/21 20:37	1
Total TPH	<50.2	U	50.2	mg/Kg		04/23/21 12:15	04/23/21 20:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		65 - 130			04/23/21 12:15	04/23/21 20:37	1
o-Terphenyl	89		65 - 130			04/23/21 12:15	04/23/21 20:37	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98	mg/Kg		04/26/21 08:07	04/26/21 16:14	1

Eurofins Xenco, El Paso

Client Sample Results

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Client Sample ID: S2-2

Lab Sample ID: 830-318-4

Date Collected: 04/21/21 09:34

Matrix: Solid

Date Received: 04/21/21 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000998	U	0.000998	mg/Kg		04/22/21 15:47	04/23/21 01:35	1
Toluene	<0.00499	U	0.00499	mg/Kg		04/22/21 15:47	04/23/21 01:35	1
Ethylbenzene	<0.000998	U	0.000998	mg/Kg		04/22/21 15:47	04/23/21 01:35	1
m,p-Xylenes	<0.00200	U	0.00200	mg/Kg		04/22/21 15:47	04/23/21 01:35	1
o-Xylene	<0.000998	U	0.000998	mg/Kg		04/22/21 15:47	04/23/21 01:35	1
Xylenes, Total	<0.00200	U	0.00200	mg/Kg		04/22/21 15:47	04/23/21 01:35	1
Total BTEX	<0.00499	U	0.00499	mg/Kg		04/22/21 15:47	04/23/21 01:35	1
MTBE	<0.00499	U	0.00499	mg/Kg		04/22/21 15:47	04/23/21 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		56 - 150	04/22/21 15:47	04/23/21 01:35	1
4-Bromofluorobenzene (Surr)	115	*3	68 - 152	04/22/21 15:47	04/23/21 01:35	1
Dibromofluoromethane (Surr)	98		53 - 142	04/22/21 15:47	04/23/21 01:35	1
Toluene-d8 (Surr)	103		70 - 130	04/22/21 15:47	04/23/21 01:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		04/23/21 12:15	04/23/21 20:56	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		04/23/21 12:15	04/23/21 20:56	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		04/23/21 12:15	04/23/21 20:56	1
Total TPH	<50.4	U	50.4	mg/Kg		04/23/21 12:15	04/23/21 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		65 - 130	04/23/21 12:15	04/23/21 20:56	1
o-Terphenyl	88		65 - 130	04/23/21 12:15	04/23/21 20:56	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg		04/26/21 08:07	04/26/21 16:25	1

Client Sample ID: S3

Lab Sample ID: 830-318-5

Date Collected: 04/21/21 09:36

Matrix: Solid

Date Received: 04/21/21 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 01:56	1
Toluene	<0.00500	U	0.00500	mg/Kg		04/22/21 15:47	04/23/21 01:56	1
Ethylbenzene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 01:56	1
m,p-Xylenes	<0.00200	U	0.00200	mg/Kg		04/22/21 15:47	04/23/21 01:56	1
o-Xylene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 01:56	1
Xylenes, Total	<0.00200	U	0.00200	mg/Kg		04/22/21 15:47	04/23/21 01:56	1
Total BTEX	<0.00500	U	0.00500	mg/Kg		04/22/21 15:47	04/23/21 01:56	1
MTBE	<0.00500	U	0.00500	mg/Kg		04/22/21 15:47	04/23/21 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		56 - 150	04/22/21 15:47	04/23/21 01:56	1
4-Bromofluorobenzene (Surr)	111		68 - 152	04/22/21 15:47	04/23/21 01:56	1
Dibromofluoromethane (Surr)	98		53 - 142	04/22/21 15:47	04/23/21 01:56	1
Toluene-d8 (Surr)	105		70 - 130	04/22/21 15:47	04/23/21 01:56	1

Eurofins Xenco, El Paso

Client Sample Results

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Client Sample ID: S3

Lab Sample ID: 830-318-5

Date Collected: 04/21/21 09:36

Matrix: Solid

Date Received: 04/21/21 10:40

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/23/21 12:15	04/23/21 21:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/23/21 12:15	04/23/21 21:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/23/21 12:15	04/23/21 21:14	1
Total TPH	<49.9	U	49.9	mg/Kg		04/23/21 12:15	04/23/21 21:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		65 - 130			04/23/21 12:15	04/23/21 21:14	1
o-Terphenyl	87		65 - 130			04/23/21 12:15	04/23/21 21:14	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg		04/26/21 08:07	04/26/21 16:36	1

Client Sample ID: S3-2

Lab Sample ID: 830-318-6

Date Collected: 04/21/21 09:37

Matrix: Solid

Date Received: 04/21/21 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 02:16	1
Toluene	<0.00502	U	0.00502	mg/Kg		04/22/21 15:47	04/23/21 02:16	1
Ethylbenzene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 02:16	1
m,p-Xylenes	<0.00201	U	0.00201	mg/Kg		04/22/21 15:47	04/23/21 02:16	1
o-Xylene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 02:16	1
Xylenes, Total	<0.00201	U	0.00201	mg/Kg		04/22/21 15:47	04/23/21 02:16	1
Total BTEX	<0.00502	U	0.00502	mg/Kg		04/22/21 15:47	04/23/21 02:16	1
MTBE	<0.00502	U	0.00502	mg/Kg		04/22/21 15:47	04/23/21 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		56 - 150			04/22/21 15:47	04/23/21 02:16	1
4-Bromofluorobenzene (Surr)	106		68 - 152			04/22/21 15:47	04/23/21 02:16	1
Dibromofluoromethane (Surr)	104		53 - 142			04/22/21 15:47	04/23/21 02:16	1
Toluene-d8 (Surr)	102		70 - 130			04/22/21 15:47	04/23/21 02:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/23/21 12:15	04/23/21 21:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/23/21 12:15	04/23/21 21:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/23/21 12:15	04/23/21 21:51	1
Total TPH	<49.8	U	49.8	mg/Kg		04/23/21 12:15	04/23/21 21:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		65 - 130			04/23/21 12:15	04/23/21 21:51	1
o-Terphenyl	93		65 - 130			04/23/21 12:15	04/23/21 21:51	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.2	U	10.2	mg/Kg		04/26/21 08:07	04/26/21 16:46	1

Eurofins Xenco, El Paso

Client Sample Results

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Client Sample ID: S4

Lab Sample ID: 830-318-7

Date Collected: 04/21/21 09:40

Matrix: Solid

Date Received: 04/21/21 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000994	U	0.000994	mg/Kg		04/22/21 15:47	04/23/21 02:36	1
Toluene	<0.00497	U	0.00497	mg/Kg		04/22/21 15:47	04/23/21 02:36	1
Ethylbenzene	<0.000994	U	0.000994	mg/Kg		04/22/21 15:47	04/23/21 02:36	1
m,p-Xylenes	<0.00199	U	0.00199	mg/Kg		04/22/21 15:47	04/23/21 02:36	1
o-Xylene	<0.000994	U	0.000994	mg/Kg		04/22/21 15:47	04/23/21 02:36	1
Xylenes, Total	<0.00199	U	0.00199	mg/Kg		04/22/21 15:47	04/23/21 02:36	1
Total BTEX	<0.00497	U	0.00497	mg/Kg		04/22/21 15:47	04/23/21 02:36	1
MTBE	<0.00497	U	0.00497	mg/Kg		04/22/21 15:47	04/23/21 02:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		56 - 150	04/22/21 15:47	04/23/21 02:36	1
4-Bromofluorobenzene (Surr)	105		68 - 152	04/22/21 15:47	04/23/21 02:36	1
Dibromofluoromethane (Surr)	98		53 - 142	04/22/21 15:47	04/23/21 02:36	1
Toluene-d8 (Surr)	102		70 - 130	04/22/21 15:47	04/23/21 02:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/23/21 12:15	04/23/21 22:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/23/21 12:15	04/23/21 22:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/23/21 12:15	04/23/21 22:10	1
Total TPH	<49.9	U	49.9	mg/Kg		04/23/21 12:15	04/23/21 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		65 - 130	04/23/21 12:15	04/23/21 22:10	1
o-Terphenyl	100		65 - 130	04/23/21 12:15	04/23/21 22:10	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg		04/26/21 08:07	04/26/21 16:57	1

Client Sample ID: S4-2

Lab Sample ID: 830-318-8

Date Collected: 04/21/21 09:41

Matrix: Solid

Date Received: 04/21/21 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 02:57	1
Toluene	<0.00500	U	0.00500	mg/Kg		04/22/21 15:47	04/23/21 02:57	1
Ethylbenzene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 02:57	1
m,p-Xylenes	<0.00200	U	0.00200	mg/Kg		04/22/21 15:47	04/23/21 02:57	1
o-Xylene	<0.00100	U	0.00100	mg/Kg		04/22/21 15:47	04/23/21 02:57	1
Xylenes, Total	<0.00200	U	0.00200	mg/Kg		04/22/21 15:47	04/23/21 02:57	1
Total BTEX	<0.00500	U	0.00500	mg/Kg		04/22/21 15:47	04/23/21 02:57	1
MTBE	<0.00500	U	0.00500	mg/Kg		04/22/21 15:47	04/23/21 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		56 - 150	04/22/21 15:47	04/23/21 02:57	1
4-Bromofluorobenzene (Surr)	109		68 - 152	04/22/21 15:47	04/23/21 02:57	1
Dibromofluoromethane (Surr)	103		53 - 142	04/22/21 15:47	04/23/21 02:57	1
Toluene-d8 (Surr)	104		70 - 130	04/22/21 15:47	04/23/21 02:57	1

Eurofins Xenco, El Paso

Client Sample Results

Client: Kinder Morgan - El Paso Natural Gas Company
 Project/Site: L1103 Spike Test

Job ID: 830-318-1

Client Sample ID: S4-2

Lab Sample ID: 830-318-8

Date Collected: 04/21/21 09:41

Matrix: Solid

Date Received: 04/21/21 10:40

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		04/23/21 12:15	04/23/21 22:28	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		04/23/21 12:15	04/23/21 22:28	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		04/23/21 12:15	04/23/21 22:28	1
Total TPH	<50.4	U	50.4	mg/Kg		04/23/21 12:15	04/23/21 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		65 - 130	04/23/21 12:15	04/23/21 22:28	1
o-Terphenyl	96		65 - 130	04/23/21 12:15	04/23/21 22:28	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94	mg/Kg		04/26/21 08:07	04/26/21 17:29	1

Eurofins Xenco, El Paso

Surrogate Summary

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
830-318-1	S1	114	105	104	100
830-318-2	S1-2	115	111	100	101
830-318-3	S2	116	109	106	102
830-318-4	S2-2	116	115 *3	98	103
830-318-5	S3	106	111	98	105
830-318-6	S3-2	112	106	104	102
830-318-7	S4	110	105	98	102
830-318-8	S4-2	105	109	103	104
860-2374-A-7-A MS	Matrix Spike	83	108	93	108
LCS 860-4768/3	Lab Control Sample	100	99	95	100
LCSD 860-4768/4	Lab Control Sample Dup	100	97	96	100
MB 860-4768/8	Method Blank	105	103	97	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (65-130)	OTPH1 (65-130)
830-318-1	S1	89	96
830-318-1 MS	S1	102	78
830-318-1 MSD	S1	101	77
830-318-2	S1-2	84	90
830-318-3	S2	81	89
830-318-4	S2-2	81	88
830-318-5	S3	80	87
830-318-6	S3-2	79	93
830-318-7	S4	86	100
830-318-8	S4-2	90	96
LCS 860-4907/2-A	Lab Control Sample	107	89
LCSD 860-4907/3-A	Lab Control Sample Dup	108	92
MB 860-4907/1-A	Method Blank	90	101

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Eurofins Xenco, El Paso

QC Sample Results

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 860-2374-A-7-A MS

Matrix: Solid

Analysis Batch: 4768

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 4752

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00101	U	0.0499	0.05247		mg/Kg		105	71 - 119
Toluene	<0.00505	U	0.0499	0.05602		mg/Kg		112	74 - 122
Ethylbenzene	<0.00101	U	0.0499	0.05548		mg/Kg		111	80 - 123
m,p-Xylenes	<0.00202	U	0.0998	0.1095		mg/Kg		110	78 - 127
o-Xylene	<0.00101	U	0.0499	0.05261		mg/Kg		105	79 - 125
MTBE	<0.00505	U	0.0499	0.04088		mg/Kg		82	64 - 148

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	83		56 - 150
4-Bromofluorobenzene (Surr)	108		68 - 152
Dibromofluoromethane (Surr)	93		53 - 142
Toluene-d8 (Surr)	108		70 - 130

Lab Sample ID: MB 860-4768/8

Matrix: Solid

Analysis Batch: 4768

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	mg/Kg			04/22/21 20:28	1
Toluene	<0.00500	U	0.00500	mg/Kg			04/22/21 20:28	1
Ethylbenzene	<0.00100	U	0.00100	mg/Kg			04/22/21 20:28	1
m,p-Xylenes	<0.00200	U	0.00200	mg/Kg			04/22/21 20:28	1
o-Xylene	<0.00100	U	0.00100	mg/Kg			04/22/21 20:28	1
Xylenes, Total	<0.00200	U	0.00200	mg/Kg			04/22/21 20:28	1
Total BTEX	<0.00500	U	0.00500	mg/Kg			04/22/21 20:28	1
MTBE	<0.00500	U	0.00500	mg/Kg			04/22/21 20:28	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		56 - 150		04/22/21 20:28	1
4-Bromofluorobenzene (Surr)	103		68 - 152		04/22/21 20:28	1
Dibromofluoromethane (Surr)	97		53 - 142		04/22/21 20:28	1
Toluene-d8 (Surr)	101		70 - 130		04/22/21 20:28	1

Lab Sample ID: LCS 860-4768/3

Matrix: Solid

Analysis Batch: 4768

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05058		mg/Kg		101	66 - 142
Toluene	0.0500	0.05044		mg/Kg		101	74 - 130
Ethylbenzene	0.0500	0.05124		mg/Kg		102	80 - 130
m,p-Xylenes	0.100	0.1016		mg/Kg		102	78 - 130
o-Xylene	0.0500	0.04890		mg/Kg		98	79 - 130
MTBE	0.0500	0.04816		mg/Kg		96	64 - 148

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1,2-Dichloroethane-d4 (Surr)	100		56 - 150

Eurofins Xenco, El Paso

QC Sample Results

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-4768/3

Matrix: Solid

Analysis Batch: 4768

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		68 - 152
Dibromofluoromethane (Surr)	95		53 - 142
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 860-4768/4

Matrix: Solid

Analysis Batch: 4768

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05198		mg/Kg		104	66 - 142	3	25
Toluene	0.0500	0.05266		mg/Kg		105	74 - 130	4	25
Ethylbenzene	0.0500	0.05354		mg/Kg		107	80 - 130	4	25
m,p-Xylenes	0.100	0.1066		mg/Kg		107	78 - 130	5	25
o-Xylene	0.0500	0.05305		mg/Kg		106	79 - 130	8	25
MTBE	0.0500	0.05401		mg/Kg		108	64 - 148	11	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		56 - 150
4-Bromofluorobenzene (Surr)	97		68 - 152
Dibromofluoromethane (Surr)	96		53 - 142
Toluene-d8 (Surr)	100		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-4907/1-A

Matrix: Solid

Analysis Batch: 4884

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4907

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/23/21 12:15	04/23/21 18:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/23/21 12:15	04/23/21 18:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/23/21 12:15	04/23/21 18:10	1
Total TPH	<50.0	U	50.0	mg/Kg		04/23/21 12:15	04/23/21 18:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		65 - 130	04/23/21 12:15	04/23/21 18:10	1
o-Terphenyl	101		65 - 130	04/23/21 12:15	04/23/21 18:10	1

Lab Sample ID: LCS 860-4907/2-A

Matrix: Solid

Analysis Batch: 4884

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1039		mg/Kg		104	70 - 135
Diesel Range Organics (Over C10-C28)	1000	946.4		mg/Kg		95	70 - 135

Eurofins Xenco, El Paso

QC Sample Results

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 860-4907/2-A

Matrix: Solid

Analysis Batch: 4884

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4907

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		65 - 130
o-Terphenyl	89		65 - 130

Lab Sample ID: LCSD 860-4907/3-A

Matrix: Solid

Analysis Batch: 4884

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4907

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1056		mg/Kg		105	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	1000	972.2		mg/Kg		97	70 - 135	3	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		65 - 130
o-Terphenyl	92		65 - 130

Lab Sample ID: 830-318-1 MS

Matrix: Solid

Analysis Batch: 4884

Client Sample ID: S1

Prep Type: Total/NA

Prep Batch: 4907

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	1000	963.3		mg/Kg		96	70 - 135		
Diesel Range Organics (Over C10-C28)	<49.5	U	1000	946.2		mg/Kg		93	70 - 135		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		65 - 130
o-Terphenyl	78		65 - 130

Lab Sample ID: 830-318-1 MSD

Matrix: Solid

Analysis Batch: 4884

Client Sample ID: S1

Prep Type: Total/NA

Prep Batch: 4907

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	1000	890.0		mg/Kg		89	70 - 135	8	35
Diesel Range Organics (Over C10-C28)	<49.5	U	1000	932.3		mg/Kg		92	70 - 135	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		65 - 130
o-Terphenyl	77		65 - 130

Eurofins Xenco, El Paso

QC Sample Results

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-5057/1-A

Matrix: Solid

Analysis Batch: 5058

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5057

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg		04/26/21 08:07	04/26/21 08:48	1

Lab Sample ID: LCS 860-5057/2-A

Matrix: Solid

Analysis Batch: 5058

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	96.13		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-5057/3-A

Matrix: Solid

Analysis Batch: 5058

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5057

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	96.16		mg/Kg		96	80 - 120	0	20

Lab Sample ID: 870-604-A-12-C MS

Matrix: Solid

Analysis Batch: 5058

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 5057

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<9.98	U	100	100.3		mg/Kg		100	80 - 120

Lab Sample ID: 870-604-A-12-D MSD

Matrix: Solid

Analysis Batch: 5058

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 5057

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<9.98	U	100	100.5		mg/Kg		100	80 - 120	0	20

Eurofins Xenco, El Paso

QC Association Summary

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

GC/MS VOA

Prep Batch: 4752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-318-1	S1	Total/NA	Solid	5035	
830-318-2	S1-2	Total/NA	Solid	5035	
830-318-3	S2	Total/NA	Solid	5035	
830-318-4	S2-2	Total/NA	Solid	5035	
830-318-5	S3	Total/NA	Solid	5035	
830-318-6	S3-2	Total/NA	Solid	5035	
830-318-7	S4	Total/NA	Solid	5035	
830-318-8	S4-2	Total/NA	Solid	5035	
860-2374-A-7-A MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 4768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-318-1	S1	Total/NA	Solid	8260C	4752
830-318-2	S1-2	Total/NA	Solid	8260C	4752
830-318-3	S2	Total/NA	Solid	8260C	4752
830-318-4	S2-2	Total/NA	Solid	8260C	4752
830-318-5	S3	Total/NA	Solid	8260C	4752
830-318-6	S3-2	Total/NA	Solid	8260C	4752
830-318-7	S4	Total/NA	Solid	8260C	4752
830-318-8	S4-2	Total/NA	Solid	8260C	4752
MB 860-4768/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-4768/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-4768/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-2374-A-7-A MS	Matrix Spike	Total/NA	Solid	8260C	4752

GC Semi VOA

Analysis Batch: 4884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-318-1	S1	Total/NA	Solid	8015B NM	4907
830-318-2	S1-2	Total/NA	Solid	8015B NM	4907
830-318-3	S2	Total/NA	Solid	8015B NM	4907
830-318-4	S2-2	Total/NA	Solid	8015B NM	4907
830-318-5	S3	Total/NA	Solid	8015B NM	4907
830-318-6	S3-2	Total/NA	Solid	8015B NM	4907
830-318-7	S4	Total/NA	Solid	8015B NM	4907
830-318-8	S4-2	Total/NA	Solid	8015B NM	4907
MB 860-4907/1-A	Method Blank	Total/NA	Solid	8015B NM	4907
LCS 860-4907/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4907
LCSD 860-4907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4907
830-318-1 MS	S1	Total/NA	Solid	8015B NM	4907
830-318-1 MSD	S1	Total/NA	Solid	8015B NM	4907

Prep Batch: 4907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-318-1	S1	Total/NA	Solid	8015NM Prep	
830-318-2	S1-2	Total/NA	Solid	8015NM Prep	
830-318-3	S2	Total/NA	Solid	8015NM Prep	
830-318-4	S2-2	Total/NA	Solid	8015NM Prep	
830-318-5	S3	Total/NA	Solid	8015NM Prep	
830-318-6	S3-2	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, El Paso

QC Association Summary

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

GC Semi VOA (Continued)

Prep Batch: 4907 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-318-7	S4	Total/NA	Solid	8015NM Prep	
830-318-8	S4-2	Total/NA	Solid	8015NM Prep	
MB 860-4907/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-4907/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-4907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
830-318-1 MS	S1	Total/NA	Solid	8015NM Prep	
830-318-1 MSD	S1	Total/NA	Solid	8015NM Prep	

HPLC/IC

Prep Batch: 5057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-318-1	S1	Total/NA	Solid	300_Prep	
830-318-2	S1-2	Total/NA	Solid	300_Prep	
830-318-3	S2	Total/NA	Solid	300_Prep	
830-318-4	S2-2	Total/NA	Solid	300_Prep	
830-318-5	S3	Total/NA	Solid	300_Prep	
830-318-6	S3-2	Total/NA	Solid	300_Prep	
830-318-7	S4	Total/NA	Solid	300_Prep	
830-318-8	S4-2	Total/NA	Solid	300_Prep	
MB 860-5057/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-5057/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-5057/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
870-604-A-12-C MS	Matrix Spike	Total/NA	Solid	300_Prep	
870-604-A-12-D MSD	Matrix Spike Duplicate	Total/NA	Solid	300_Prep	

Analysis Batch: 5058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-318-1	S1	Total/NA	Solid	300.0	5057
830-318-2	S1-2	Total/NA	Solid	300.0	5057
830-318-3	S2	Total/NA	Solid	300.0	5057
830-318-4	S2-2	Total/NA	Solid	300.0	5057
830-318-5	S3	Total/NA	Solid	300.0	5057
830-318-6	S3-2	Total/NA	Solid	300.0	5057
830-318-7	S4	Total/NA	Solid	300.0	5057
830-318-8	S4-2	Total/NA	Solid	300.0	5057
MB 860-5057/1-A	Method Blank	Total/NA	Solid	300.0	5057
LCS 860-5057/2-A	Lab Control Sample	Total/NA	Solid	300.0	5057
LCSD 860-5057/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	5057
870-604-A-12-C MS	Matrix Spike	Total/NA	Solid	300.0	5057
870-604-A-12-D MSD	Matrix Spike Duplicate	Total/NA	Solid	300.0	5057

Eurofins Xenco, El Paso

Lab Chronicle

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Client Sample ID: S1

Lab Sample ID: 830-318-1

Date Collected: 04/21/21 09:30

Matrix: Solid

Date Received: 04/21/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4752	04/22/21 15:47	WS1	XS
Total/NA	Analysis	8260C		1	4768	04/23/21 00:34	T1S	XS
Total/NA	Prep	8015NM Prep			4907	04/23/21 12:15	DAW	XS
Total/NA	Analysis	8015B NM		1	4884	04/23/21 19:23	T1S	XS
Total/NA	Prep	300_Prep			5057	04/26/21 08:07	JM	XS
Total/NA	Analysis	300.0		1	5058	04/26/21 15:53	WP	XS

Client Sample ID: S1-2

Lab Sample ID: 830-318-2

Date Collected: 04/21/21 09:30

Matrix: Solid

Date Received: 04/21/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4752	04/22/21 15:47	WS1	XS
Total/NA	Analysis	8260C		1	4768	04/23/21 00:54	T1S	XS
Total/NA	Prep	8015NM Prep			4907	04/23/21 12:15	DAW	XS
Total/NA	Analysis	8015B NM		1	4884	04/23/21 20:18	T1S	XS
Total/NA	Prep	300_Prep			5057	04/26/21 08:07	JM	XS
Total/NA	Analysis	300.0		1	5058	04/26/21 16:04	WP	XS

Client Sample ID: S2

Lab Sample ID: 830-318-3

Date Collected: 04/21/21 09:33

Matrix: Solid

Date Received: 04/21/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4752	04/22/21 15:47	WS1	XS
Total/NA	Analysis	8260C		1	4768	04/23/21 01:15	T1S	XS
Total/NA	Prep	8015NM Prep			4907	04/23/21 12:15	DAW	XS
Total/NA	Analysis	8015B NM		1	4884	04/23/21 20:37	T1S	XS
Total/NA	Prep	300_Prep			5057	04/26/21 08:07	JM	XS
Total/NA	Analysis	300.0		1	5058	04/26/21 16:14	WP	XS

Client Sample ID: S2-2

Lab Sample ID: 830-318-4

Date Collected: 04/21/21 09:34

Matrix: Solid

Date Received: 04/21/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4752	04/22/21 15:47	WS1	XS
Total/NA	Analysis	8260C		1	4768	04/23/21 01:35	T1S	XS
Total/NA	Prep	8015NM Prep			4907	04/23/21 12:15	DAW	XS
Total/NA	Analysis	8015B NM		1	4884	04/23/21 20:56	T1S	XS
Total/NA	Prep	300_Prep			5057	04/26/21 08:07	JM	XS
Total/NA	Analysis	300.0		1	5058	04/26/21 16:25	WP	XS

Eurofins Xenco, El Paso

Lab Chronicle

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Client Sample ID: S3

Date Collected: 04/21/21 09:36

Date Received: 04/21/21 10:40

Lab Sample ID: 830-318-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4752	04/22/21 15:47	WS1	XS
Total/NA	Analysis	8260C		1	4768	04/23/21 01:56	T1S	XS
Total/NA	Prep	8015NM Prep			4907	04/23/21 12:15	DAW	XS
Total/NA	Analysis	8015B NM		1	4884	04/23/21 21:14	T1S	XS
Total/NA	Prep	300_Prep			5057	04/26/21 08:07	JM	XS
Total/NA	Analysis	300.0		1	5058	04/26/21 16:36	WP	XS

Client Sample ID: S3-2

Date Collected: 04/21/21 09:37

Date Received: 04/21/21 10:40

Lab Sample ID: 830-318-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4752	04/22/21 15:47	WS1	XS
Total/NA	Analysis	8260C		1	4768	04/23/21 02:16	T1S	XS
Total/NA	Prep	8015NM Prep			4907	04/23/21 12:15	DAW	XS
Total/NA	Analysis	8015B NM		1	4884	04/23/21 21:51	T1S	XS
Total/NA	Prep	300_Prep			5057	04/26/21 08:07	JM	XS
Total/NA	Analysis	300.0		1	5058	04/26/21 16:46	WP	XS

Client Sample ID: S4

Date Collected: 04/21/21 09:40

Date Received: 04/21/21 10:40

Lab Sample ID: 830-318-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4752	04/22/21 15:47	WS1	XS
Total/NA	Analysis	8260C		1	4768	04/23/21 02:36	T1S	XS
Total/NA	Prep	8015NM Prep			4907	04/23/21 12:15	DAW	XS
Total/NA	Analysis	8015B NM		1	4884	04/23/21 22:10	T1S	XS
Total/NA	Prep	300_Prep			5057	04/26/21 08:07	JM	XS
Total/NA	Analysis	300.0		1	5058	04/26/21 16:57	WP	XS

Client Sample ID: S4-2

Date Collected: 04/21/21 09:41

Date Received: 04/21/21 10:40

Lab Sample ID: 830-318-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4752	04/22/21 15:47	WS1	XS
Total/NA	Analysis	8260C		1	4768	04/23/21 02:57	T1S	XS
Total/NA	Prep	8015NM Prep			4907	04/23/21 12:15	DAW	XS
Total/NA	Analysis	8015B NM		1	4884	04/23/21 22:28	T1S	XS
Total/NA	Prep	300_Prep			5057	04/26/21 08:07	JM	XS
Total/NA	Analysis	300.0		1	5058	04/26/21 17:29	WP	XS

Laboratory References:

XS = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Xenco, El Paso

Accreditation/Certification Summary

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Laboratory: Eurofins Xenco, Stafford

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-39	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8015B NM	8015NM Prep	Solid	Total TPH
8260C	5035	Solid	Total BTEX

Eurofins Xenco, El Paso

Method Summary

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XS
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XS
300.0	Anions, Ion Chromatography	MCAWW	XS
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XS
5035	Closed System Purge and Trap	SW846	XS
8015NM Prep	Microextraction	SW846	XS

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XS = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Xenco, El Paso

Sample Summary

Client: Kinder Morgan - El Paso Natural Gas Company
Project/Site: L1103 Spike Test

Job ID: 830-318-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
830-318-1	S1	Solid	04/21/21 09:30	04/21/21 10:40	
830-318-2	S1-2	Solid	04/21/21 09:30	04/21/21 10:40	
830-318-3	S2	Solid	04/21/21 09:33	04/21/21 10:40	
830-318-4	S2-2	Solid	04/21/21 09:34	04/21/21 10:40	
830-318-5	S3	Solid	04/21/21 09:36	04/21/21 10:40	
830-318-6	S3-2	Solid	04/21/21 09:37	04/21/21 10:40	
830-318-7	S4	Solid	04/21/21 09:40	04/21/21 10:40	
830-318-8	S4-2	Solid	04/21/21 09:41	04/21/21 10:40	

Eurofins Xenco, El Paso



Chair of Custody

Work Order No: _____

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

www.xenco.com Page _____ of _____

Project Manager:	Karl	Bill to: (if different)
Company Name:	GLS Railroad Div.	Company Name:
Address:	EL Paso TX 79104	Address:
City, State ZIP:	015 345 6605	City, State ZIP:
Phone:		Email: cesa@glscv.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level: I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name:	L1103	Turn Around	Pres. Code
Project Number:	L1103	Routine ☐	
Project Location:		Rush:	
Sampler's Name:	C. Adams	Due Date:	3/20/21
PO #:		Quote #:	

SAMPLE RECEIPT	Temp. Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	13.0/13.4	Thermometer ID		
Received Intact:	Yes ☐ No ☒	Correction Factor:	0.020	
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Total Containers:	8	
Sample Custody Seals:	Yes ☐ No ☒ N/A			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
51	51-2	4/21	430			X	Chloride EPA 300.1 Method 8007	MeOH: Me	
52	52-2	4/21	433			X	TPH (EPA 801.1 Method 8015)	None: NO	
53	53-2	4/21	436			X	BTEX EPA 801.1 Method 8015	HNO3: HN	
54	54-2	4/21	440			X		H2SO4: H2	
55	55-2	4/21	441			X		HCL: HL	
						X		NaOH: Na	
						X		Zn Acetate+ NaOH: Zn	
						X		TAT starts the day received by the lab, if received by 4:00pm	

830-318 Chain of Custody

Loc: 830
318

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/21 10:40			2
					4
					6

Revised Date 02/26/19 Rev 2019.1

830-318
Chain of Custody Record



Chain of Custody Record

Client Information (Sub Contract Lab)				Samp/er: Taylor, Holly		Carrier Tracking No(s): 830-81.1			
Client Contact: Shipping/Receiving				Phone: holly.taylor@eurofins.com		Page: Page 1 of 1			
Company: Eurofins Xenco				Accreditations Required (See note): NELAP - Texas		Job #: 830-318-1			
Address: 14147 Greenbriar Dr, Stafford TX, 77477				Due Date Requested: 4/26/2021		Preservation Codes: A - HCL, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2SO4, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)			
Phone: 281-240-4200(Tel)				TAT Requested (days):		Other:			
Email:				PO #:		Total Number of containers			
Project Name: L1103 Spike Test				WO #:		Special Instructions/Note:			
Site: Temp: 5.2 IR ID:HOU-272 C/F: +0.1 Corrected Temp: 5.3				Project #: 83000062					
				SSOW#:					
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	300_ORGFM_28D/300_Prep (MOD) Chloride	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	8260C/6035FP_Calc BTEX and MTBE	Total Number of containers
S1 (830-318-1)	4/21/21	09:30 Mountain		Solid		X	X	X	1
S1-2 (830-318-2)	4/21/21	09:30 Mountain		Solid		X	X	X	1
S2 (830-318-3)	4/21/21	09:33 Mountain		Solid		X	X	X	1
S2-2 (830-318-4)	4/21/21	09:34 Mountain		Solid		X	X	X	1
S3 (830-318-5)	4/21/21	09:36 Mountain		Solid		X	X	X	1
S3-2 (830-318-6)	4/21/21	09:37 Mountain		Solid		X	X	X	1
S4 (830-318-7)	4/21/21	09:40 Mountain		Solid		X	X	X	1
S4-2 (830-318-8)	4/21/21	09:41 Mountain		Solid		X	X	X	1

Note: Since laboratory accreditation is subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon subcontract it maintains accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or the Eurofins Xenco LLC attention immediately. If all requested accreditation are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal
☐ Return To C
☒ Special Instruction.

Chain of Custody
 830-318 Chain of Custody

Signature and Date
 Received by: *[Signature]* Date/Time: 4/21/21 10:00
 Received by: *[Signature]* Date/Time: 4/21/21 11:15
 Received by: *[Signature]* Date/Time: 4/21/21 11:15

Method of Shipment: Fedex
Time: 4/21/21 10:00
Company: Eurofins Xenco

Empty Kit Relinquished by: *[Signature]* Date/Time: 4/21/21 10:00
Relinquished by: *[Signature]* Date/Time: 4/21/21 10:00
Relinquished by: *[Signature]* Date/Time: 4/21/21 10:00

Custody Seal No.: A Yes A No
Custody Seals Intact: A Yes A No
Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Kinder Morgan - El Paso Natural Gas Comp

Job Number: 830-318-1

Login Number: 318

List Number: 1

Creator: Aparicio, Niria

List Source: Eurofins El Paso

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Kinder Morgan - El Paso Natural Gas Comp

Job Number: 830-318-1

Login Number: 318

List Number: 2

Creator: Torres, Sandra

List Source: Eurofins Stafford

List Creation: 04/22/21 01:32 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Certificate of Analysis Summary 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

Project Name: L1103 Spike test

Project Id:

Contact: Edgar Brown

Project Location:

Date Received in Lab: Tue 11.24.2020 16:55

Report Date: 12.08.2020 10:03

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	679047-001	679047-002	679047-003	679047-004	679047-005	
	<i>Field Id:</i>	Background soil	Bell hole soil	Hill Side soil	Side of afton rd	End of spill	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	11.24.2020 15:42	11.24.2020 15:48	11.24.2020 15:54	11.24.2020 15:51	11.24.2020 15:47	
Chloride by EPA 300 SUB: T104704215-20-38	<i>Extracted:</i>	12.03.2020 15:00	12.03.2020 15:00	12.03.2020 15:00	12.03.2020 15:00	12.03.2020 15:00	
	<i>Analyzed:</i>	12.03.2020 16:35	12.03.2020 17:22	12.03.2020 18:09	12.03.2020 18:56	12.03.2020 19:12	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		<9.98 9.98	25.7 10.0	<9.90 9.90	19.4 10.0	10.1 10.1	
Soil pH by SW-846 9045C SUB: T104704215-20-38	<i>Extracted:</i>						
	<i>Analyzed:</i>	12.02.2020 12:06	12.02.2020 12:06	12.02.2020 12:06	12.02.2020 12:06	12.02.2020 12:06	
	<i>Units/RL:</i>	Deg C RL	Deg C RL	Deg C RL	Deg C RL	Deg C RL	
Soil pH meas. in water at		20.3	20.8	20.6	20.3	20.8	
Soil pH by SW-846 9045C SUB: T104704215-20-38	<i>Extracted:</i>						
	<i>Analyzed:</i>	12.02.2020 12:06	12.02.2020 12:06	12.02.2020 12:06	12.02.2020 12:06	12.02.2020 12:06	
	<i>Units/RL:</i>	SU RL	SU RL	SU RL	SU RL	SU RL	
pH		9.39	9.81	9.30	9.27	9.22	
TPH by Texas1005 SUB: T104704215-20-38	<i>Extracted:</i>	12.02.2020 08:59	12.02.2020 09:02	12.02.2020 09:05	12.02.2020 09:08	12.02.2020 09:11	
	<i>Analyzed:</i>	12.03.2020 01:24	12.03.2020 01:43	12.03.2020 02:03	12.03.2020 02:43	12.03.2020 03:02	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		<50.1 50.1	<50.1 50.1	<50.0 50.0	<49.8 49.8	<49.8 49.8	
>C12-C28 Diesel Range Hydrocarbons		<50.1 50.1	<50.1 50.1	<50.0 50.0	<49.8 49.8	<49.8 49.8	
>C28-C35 Oil Range Hydrocarbons		<50.1 50.1	<50.1 50.1	<50.0 50.0	<49.8 49.8	<49.8 49.8	
Total TPH		<50.10 50.10	<50.10 50.10	<50.00 50.00	<49.80 49.80	<49.80 49.80	

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

Project Name: L1103 Spike test

Project Id:

Contact: Edgar Brown

Project Location:

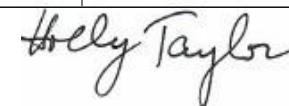
Date Received in Lab: Tue 11.24.2020 16:55

Report Date: 12.08.2020 10:03

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	679047-001	679047-002	679047-003	679047-004	679047-005	
	<i>Field Id:</i>	Background soil	Bell hole soil	Hill Side soil	Side of aften rd	End of spill	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	11.24.2020 15:42	11.24.2020 15:48	11.24.2020 15:54	11.24.2020 15:51	11.24.2020 15:47	
VOCs By SW846 8260C SUB: T104704215-20-38	<i>Extracted:</i>	12.07.2020 13:00	12.07.2020 13:00	12.07.2020 13:00	12.07.2020 13:00	12.07.2020 13:00	
	<i>Analyzed:</i>	12.07.2020 13:19	12.07.2020 13:39	12.07.2020 13:59	12.07.2020 14:19	12.07.2020 14:39	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	
Bromobenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Bromochloromethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Bromodichloromethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Bromoform		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Methyl bromide		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
2-Butanone		<0.0200 0.0200	<0.0200 0.0200	<0.0200 0.0200	<0.0200 0.0200	<0.0200 0.0200	
tert-Butylbenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Sec-Butylbenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
n-Butylbenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Carbon Tetrachloride		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Chlorobenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Chloroethane		<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	
Chloroform		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Methyl Chloride		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
2-Chlorotoluene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
4-Chlorotoluene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
p-Cymene (p-Isopropyltoluene)		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,2-Dibromo-3-Chloropropane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Dibromochloromethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,2-Dibromoethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Methylene Bromide		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,2-Dichlorobenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,3-Dichlorobenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	

BRL - Below Reporting Limit



Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

Project Name: L1103 Spike test

Project Id:

Contact: Edgar Brown

Project Location:

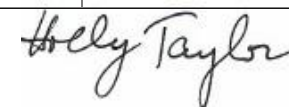
Date Received in Lab: Tue 11.24.2020 16:55

Report Date: 12.08.2020 10:03

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	679047-001	679047-002	679047-003	679047-004	679047-005	
	<i>Field Id:</i>	Background soil	Bell hole soil	Hill Side soil	Side of aften rd	End of spill	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	11.24.2020 15:42	11.24.2020 15:48	11.24.2020 15:54	11.24.2020 15:51	11.24.2020 15:47	
VOCs By SW846 8260C SUB: T104704215-20-38	<i>Extracted:</i>	12.07.2020 13:00	12.07.2020 13:00	12.07.2020 13:00	12.07.2020 13:00	12.07.2020 13:00	
	<i>Analyzed:</i>	12.07.2020 13:19	12.07.2020 13:39	12.07.2020 13:59	12.07.2020 14:19	12.07.2020 14:39	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
1,4-Dichlorobenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Dichlorodifluoromethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,2-Dichloroethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,1-Dichloroethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
trans-1,2-dichloroethylene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
cis-1,2-Dichloroethylene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,1-Dichloroethene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
2,2-Dichloropropane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,3-Dichloropropane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,2-Dichloropropane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
trans-1,3-dichloropropene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,1-Dichloropropene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
cis-1,3-Dichloropropene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Ethylbenzene		<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	<0.00100 0.00100	
Hexachlorobutadiene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Isopropylbenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Methylene Chloride		<0.0200 0.0200	<0.0200 0.0200	<0.0200 0.0200	<0.0200 0.0200	<0.0200 0.0200	
MTBE		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Naphthalene		<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	<0.0100 0.0100	
n-Propylbenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Styrene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,1,1,2-Tetrachloroethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,1,2,2-Tetrachloroethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Tetrachloroethylene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	

BRL - Below Reporting Limit



Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

Project Name: L1103 Spike test

Project Id:

Contact: Edgar Brown

Project Location:

Date Received in Lab: Tue 11.24.2020 16:55

Report Date: 12.08.2020 10:03

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	679047-001	679047-002	679047-003	679047-004	679047-005	
	<i>Field Id:</i>	Background soil	Bell hole soil	Hill Side soil	Side of aften rd	End of spill	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	11.24.2020 15:42	11.24.2020 15:48	11.24.2020 15:54	11.24.2020 15:51	11.24.2020 15:47	
VOCs By SW846 8260C SUB: T104704215-20-38	<i>Extracted:</i>	12.07.2020 13:00	12.07.2020 13:00	12.07.2020 13:00	12.07.2020 13:00	12.07.2020 13:00	
	<i>Analyzed:</i>	12.07.2020 13:19	12.07.2020 13:39	12.07.2020 13:59	12.07.2020 14:19	12.07.2020 14:39	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Toluene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,2,3-Trichlorobenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,2,4-Trichlorobenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,1,2-Trichloroethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,1,1-Trichloroethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Trichloroethylene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Trichlorofluoromethane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,2,3-Trichloropropane		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,2,4-Trimethylbenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
1,3,5-Trimethylbenzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Vinyl Chloride		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
o-Xylene		0.00107 0.00100	<0.00100 0.00100	<0.00100 0.00100	0.00103 0.00100	<0.00100 0.00100	
m,p-Xylenes		0.00304 0.00200	<0.00200 0.00200	<0.00200 0.00200	0.00236 0.00200	<0.00200 0.00200	
Total Xylenes		0.004110 0.001000	<0.001000 0.001000	<0.001000 0.001000	0.003390 0.001000	<0.001000 0.001000	

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

Project Name: L1103 Spike test

Project Id:

Contact: Edgar Brown

Project Location:

Date Received in Lab: Tue 11.24.2020 16:55

Report Date: 12.08.2020 10:03

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	679047-001	679047-002	679047-003	679047-004	679047-005	
	<i>Field Id:</i>	Background soil	Bell hole soil	Hill Side soil	Side of aften rd	End of spill	
	<i>Depth:</i>	N/A	N/A	N/A	N/A	N/A	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	11.24.2020 15:42	11.24.2020 15:48	11.24.2020 15:54	11.24.2020 15:51	11.24.2020 15:47	
TCLP BTEX by SW8260C SUB: T104704215-20-38	<i>Extracted:</i>	12.04.2020 12:00	12.03.2020 13:30	12.03.2020 13:30	12.03.2020 13:30	12.03.2020 13:30	
	<i>Analyzed:</i>	12.04.2020 13:13	12.03.2020 14:41	12.03.2020 14:59	12.03.2020 15:17	12.03.2020 15:35	
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	
Benzene		<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	<0.00500 0.00500	
Ethylbenzene		0.00690 0.00500	0.00720 0.00500	<0.00500 0.00500	<0.00500 0.00500	0.00650 0.00500	
Toluene		0.0115 0.00500	0.237 0.00500	<0.00500 0.00500	<0.00500 0.00500	0.0165 0.00500	
o-Xylene		0.00545 0.00500	0.00755 0.00500	<0.00500 0.00500	<0.00500 0.00500	0.0128 0.00500	
m,p-Xylenes		<0.0500 0.0500	<0.0500 0.0500	<0.0500 0.0500	<0.0500 0.0500	<0.0500 0.0500	
Total Xylenes		0.005450 0.005000	0.007550 0.005000	<0.005000 0.005000	<0.005000 0.005000	0.01280 0.005000	
Total BTEX		0.02385 0.005000	0.2518 0.005000	<0.005000 0.005000	<0.005000 0.005000	0.03580 0.005000	

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Analytical Report 679047

for

Kinder Morgan / El Paso Natural Gas - El Paso

Project Manager: Edgar Brown

L1103 Spike test

12.08.2020

Collected By: Client



200 East Sunset Rd, Suite E, El Paso, TX 79922

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



12.08.2020

Project Manager: **Edgar Brown**

Kinder Morgan / El Paso Natural Gas - El Paso

12600 McCombs

EL Paso, TX 79934

Reference: Eurofins Xenco, LLC Report No(s): **679047**

L1103 Spike test

Project Address:

Edgar Brown:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 679047. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 679047 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Holly Taylor".

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

**Sample Cross Reference 679047****Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, T**

L1103 Spike test

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Background soil	S	11.24.2020 15:42	N/A	679047-001
Bell hole soil	S	11.24.2020 15:48	N/A	679047-002
Hill Side soil	S	11.24.2020 15:54	N/A	679047-003
Side of afton rd	S	11.24.2020 15:51	N/A	679047-004
End of spill	S	11.24.2020 15:47	N/A	679047-005



CASE NARRATIVE

Client Name: Kinder Morgan / El Paso Natural Gas - El Paso

Project Name: L1103 Spike test

Project ID:
Work Order Number(s): 679047

Report Date: 12.08.2020
Date Received: 11.24.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3144135 VOCs By SW846 8260C

Lab Sample ID 679047-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Hexachlorobutadiene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 679047-001, -002, -003, -004, -005.

The Laboratory Control Sample for Hexachlorobutadiene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **Background soil** Matrix: Soil Date Received: 11.24.2020 16:55
 Lab Sample Id: 679047-001 Date Collected: 11.24.2020 15:42
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: JYM
 Analyst: JYM Date Prep: 12.03.2020 15:00 % Moisture:
 Seq Number: 3143882 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	12.03.2020 16:35	U	1

Analytical Method: Soil pH by SW-846 9045C

Tech: ANP
 Analyst: ANP
 Seq Number: 3143682
 % Moisture:
 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
pH	12408-02-5	9.39		SU	12.02.2020 12:06		1
Soil pH meas. in water at	TEMP	20.3		Deg C	12.02.2020 12:06		1

Analytical Method: TPH by Texas1005

Tech: MJTR
 Analyst: ISU Date Prep: 12.02.2020 08:59
 Seq Number: 3143823
 Prep Method: TX1005P
 % Moisture:
 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<50.1	50.1	mg/kg	12.03.2020 01:24	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<50.1	50.1	mg/kg	12.03.2020 01:24	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<50.1	50.1	mg/kg	12.03.2020 01:24	U	1
Total TPH	PHC635	<50.10	50.10	mg/kg	12.03.2020 01:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	109	%	70-130	12.03.2020 01:24	
1-Chlorooctane	111-85-3	76	%	70-130	12.03.2020 01:24	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **Background soil**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-001

Date Collected: 11.24.2020 15:42

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5035A

Tech: SAD

Analyst: SAD

Date Prep: 12.07.2020 13:00

% Moisture:

Basis: Wet Weight

Seq Number: 3144135

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	12.07.2020 13:19	U	1
Bromobenzene	108-86-1	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Bromochloromethane	74-97-5	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Bromodichloromethane	75-27-4	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Bromoform	75-25-2	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Methyl bromide	74-83-9	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
2-Butanone	78-93-3	<0.0200	0.0200	mg/kg	12.07.2020 13:19	U	1
tert-Butylbenzene	98-06-6	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Sec-Butylbenzene	135-98-8	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
n-Butylbenzene	104-51-8	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Carbon Tetrachloride	56-23-5	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Chlorobenzene	108-90-7	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Chloroethane	75-00-3	<0.0100	0.0100	mg/kg	12.07.2020 13:19	U	1
Chloroform	67-66-3	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Methyl Chloride	74-87-3	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
2-Chlorotoluene	95-49-8	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
4-Chlorotoluene	106-43-4	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Dibromochloromethane	124-48-1	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,2-Dibromoethane	106-93-4	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Methylene Bromide	74-95-3	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,2-Dichlorobenzene	95-50-1	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,3-Dichlorobenzene	541-73-1	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,4-Dichlorobenzene	106-46-7	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Dichlorodifluoromethane	75-71-8	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,2-Dichloroethane	107-06-2	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,1-Dichloroethane	75-34-3	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
trans-1,2-dichloroethylene	156-60-5	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,1-Dichloroethene	75-35-4	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
2,2-Dichloropropane	594-20-7	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,3-Dichloropropane	142-28-9	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,2-Dichloropropane	78-87-5	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
trans-1,3-dichloropropene	10061-02-6	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,1-Dichloropropene	563-58-6	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	12.07.2020 13:19	U	1
Hexachlorobutadiene	87-68-3	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **Background soil**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-001

Date Collected: 11.24.2020 15:42

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5035A

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 12.07.2020 13:00

Basis: Wet Weight

Seq Number: 3144135

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Isopropylbenzene	98-82-8	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Methylene Chloride	75-09-2	<0.0200	0.0200	mg/kg	12.07.2020 13:19	U	1
MTBE	1634-04-4	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Naphthalene	91-20-3	<0.0100	0.0100	mg/kg	12.07.2020 13:19	U	1
n-Propylbenzene	103-65-1	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Styrene	100-42-5	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Tetrachloroethylene	127-18-4	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Toluene	108-88-3	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,1,2-Trichloroethane	79-00-5	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,1,1-Trichloroethane	71-55-6	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Trichloroethylene	79-01-6	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Trichlorofluoromethane	75-69-4	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,2,3-Trichloropropane	96-18-4	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
Vinyl Chloride	75-01-4	<0.00500	0.00500	mg/kg	12.07.2020 13:19	U	1
o-Xylene	95-47-6	0.00107	0.00100	mg/kg	12.07.2020 13:19		1
m,p-Xylenes	179601-23-1	0.00304	0.00200	mg/kg	12.07.2020 13:19		1
Total Xylenes	1330-20-7	0.004110	0.001000	mg/kg	12.07.2020 13:19		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	99	%	53-142	12.07.2020 13:19	
1,2-Dichloroethane-D4	17060-07-0	101	%	56-150	12.07.2020 13:19	
Toluene-D8	2037-26-5	99	%	70-130	12.07.2020 13:19	
4-Bromofluorobenzene	460-00-4	99	%	68-152	12.07.2020 13:19	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX L1103 Spike test

Sample Id: **Background soil** Matrix: Soil Date Received: 11.24.2020 16:55
 Lab Sample Id: 679047-001 Date Collected: 11.24.2020 15:42
 Analytical Method: TCLP BTEX by SW8260C Prep Method: SW5030B
 Tech: NAL
 Analyst: NAL Date Prep: 12.04.2020 12:00 % Moisture:
 Seq Number: 3143988 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00500	0.00500	mg/L	12.04.2020 13:13	U	5
Ethylbenzene	100-41-4	0.00690	0.00500	mg/L	12.04.2020 13:13		5
Toluene	108-88-3	0.0115	0.00500	mg/L	12.04.2020 13:13		5
o-Xylene	95-47-6	0.00545	0.00500	mg/L	12.04.2020 13:13		5
m,p-Xylenes	179601-23-1	<0.0500	0.0500	mg/L	12.04.2020 13:13	U	5
Total Xylenes	1330-20-7	0.005450	0.005000	mg/L	12.04.2020 13:13		5
Total BTEX		0.02385	0.005000	mg/L	12.04.2020 13:13		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	107	%	75-131	12.04.2020 13:13	
1,2-Dichloroethane-D4	17060-07-0	109	%	63-144	12.04.2020 13:13	
Toluene-D8	2037-26-5	104	%	80-117	12.04.2020 13:13	
4-Bromofluorobenzene	460-00-4	105	%	74-124	12.04.2020 13:13	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **Bell hole soil** Matrix: Soil Date Received: 11.24.2020 16:55
 Lab Sample Id: 679047-002 Date Collected: 11.24.2020 15:48
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: JYM
 Analyst: JYM Date Prep: 12.03.2020 15:00 % Moisture:
 Seq Number: 3143882 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.7	10.0	mg/kg	12.03.2020 17:22		1

Analytical Method: Soil pH by SW-846 9045C

Tech: ANP
 Analyst: ANP
 Seq Number: 3143682
 % Moisture:
 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
pH	12408-02-5	9.81		SU	12.02.2020 12:06		1
Soil pH meas. in water at	TEMP	20.8		Deg C	12.02.2020 12:06		1

Analytical Method: TPH by Texas1005

Tech: MJTR
 Analyst: ISU Date Prep: 12.02.2020 09:02
 Seq Number: 3143823
 Prep Method: TX1005P
 % Moisture:
 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<50.1	50.1	mg/kg	12.03.2020 01:43	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<50.1	50.1	mg/kg	12.03.2020 01:43	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<50.1	50.1	mg/kg	12.03.2020 01:43	U	1
Total TPH	PHC635	<50.10	50.10	mg/kg	12.03.2020 01:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	114	%	70-130	12.03.2020 01:43	
1-Chlorooctane	111-85-3	83	%	70-130	12.03.2020 01:43	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **Bell hole soil**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-002

Date Collected: 11.24.2020 15:48

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5035A

Tech: SAD

Analyst: SAD

Date Prep: 12.07.2020 13:00

% Moisture:

Basis: Wet Weight

Seq Number: 3144135

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	12.07.2020 13:39	U	1
Bromobenzene	108-86-1	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Bromochloromethane	74-97-5	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Bromodichloromethane	75-27-4	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Bromoform	75-25-2	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Methyl bromide	74-83-9	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
2-Butanone	78-93-3	<0.0200	0.0200	mg/kg	12.07.2020 13:39	U	1
tert-Butylbenzene	98-06-6	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Sec-Butylbenzene	135-98-8	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
n-Butylbenzene	104-51-8	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Carbon Tetrachloride	56-23-5	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Chlorobenzene	108-90-7	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Chloroethane	75-00-3	<0.0100	0.0100	mg/kg	12.07.2020 13:39	U	1
Chloroform	67-66-3	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Methyl Chloride	74-87-3	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
2-Chlorotoluene	95-49-8	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
4-Chlorotoluene	106-43-4	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Dibromochloromethane	124-48-1	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,2-Dibromoethane	106-93-4	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Methylene Bromide	74-95-3	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,2-Dichlorobenzene	95-50-1	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,3-Dichlorobenzene	541-73-1	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,4-Dichlorobenzene	106-46-7	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Dichlorodifluoromethane	75-71-8	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,2-Dichloroethane	107-06-2	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,1-Dichloroethane	75-34-3	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
trans-1,2-dichloroethylene	156-60-5	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,1-Dichloroethene	75-35-4	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
2,2-Dichloropropane	594-20-7	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,3-Dichloropropane	142-28-9	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,2-Dichloropropane	78-87-5	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
trans-1,3-dichloropropene	10061-02-6	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,1-Dichloropropene	563-58-6	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	12.07.2020 13:39	U	1
Hexachlorobutadiene	87-68-3	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **Bell hole soil**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-002

Date Collected: 11.24.2020 15:48

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5035A

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 12.07.2020 13:00

Basis: Wet Weight

Seq Number: 3144135

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Isopropylbenzene	98-82-8	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Methylene Chloride	75-09-2	<0.0200	0.0200	mg/kg	12.07.2020 13:39	U	1
MTBE	1634-04-4	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Naphthalene	91-20-3	<0.0100	0.0100	mg/kg	12.07.2020 13:39	U	1
n-Propylbenzene	103-65-1	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Styrene	100-42-5	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Tetrachloroethylene	127-18-4	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Toluene	108-88-3	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,1,2-Trichloroethane	79-00-5	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,1,1-Trichloroethane	71-55-6	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Trichloroethylene	79-01-6	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Trichlorofluoromethane	75-69-4	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,2,3-Trichloropropane	96-18-4	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
Vinyl Chloride	75-01-4	<0.00500	0.00500	mg/kg	12.07.2020 13:39	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	12.07.2020 13:39	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	12.07.2020 13:39	U	1
Total Xylenes	1330-20-7	<0.001000	0.001000	mg/kg	12.07.2020 13:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	100	%	53-142	12.07.2020 13:39	
1,2-Dichloroethane-D4	17060-07-0	104	%	56-150	12.07.2020 13:39	
Toluene-D8	2037-26-5	98	%	70-130	12.07.2020 13:39	
4-Bromofluorobenzene	460-00-4	99	%	68-152	12.07.2020 13:39	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX L1103 Spike test

Sample Id: **Bell hole soil**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-002

Date Collected: 11.24.2020 15:48

Analytical Method: TCLP BTEX by SW8260C

Prep Method: SW5030B

Tech: EZA

Analyst: NAL

Date Prep: 12.03.2020 13:30

% Moisture:

SUB: T104704215-20-38

Seq Number: 3143861

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00500	0.00500	mg/L	12.03.2020 14:41	U	5
Ethylbenzene	100-41-4	0.00720	0.00500	mg/L	12.03.2020 14:41		5
Toluene	108-88-3	0.237	0.00500	mg/L	12.03.2020 14:41		5
o-Xylene	95-47-6	0.00755	0.00500	mg/L	12.03.2020 14:41		5
m,p-Xylenes	179601-23-1	<0.0500	0.0500	mg/L	12.03.2020 14:41	U	5
Total Xylenes	1330-20-7	0.007550	0.005000	mg/L	12.03.2020 14:41		5
Total BTEX		0.2518	0.005000	mg/L	12.03.2020 14:41		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	75-131	12.03.2020 14:41	
1,2-Dichloroethane-D4	17060-07-0	104	%	63-144	12.03.2020 14:41	
Toluene-D8	2037-26-5	106	%	80-117	12.03.2020 14:41	
4-Bromofluorobenzene	460-00-4	100	%	74-124	12.03.2020 14:41	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX L1103 Spike test

Sample Id: **Hill Side soil** Matrix: Soil Date Received: 11.24.2020 16:55
 Lab Sample Id: 679047-003 Date Collected: 11.24.2020 15:54
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: JYM
 Analyst: JYM Date Prep: 12.03.2020 15:00 % Moisture:
 Seq Number: 3143882 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.90	9.90	mg/kg	12.03.2020 18:09	U	1

Analytical Method: Soil pH by SW-846 9045C

Tech: ANP
 Analyst: ANP
 Seq Number: 3143682
 % Moisture:
 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
pH	12408-02-5	9.30		SU	12.02.2020 12:06		1
Soil pH meas. in water at	TEMP	20.6		Deg C	12.02.2020 12:06		1

Analytical Method: TPH by Texas1005

Tech: MJTR
 Analyst: ISU Date Prep: 12.02.2020 09:05
 Seq Number: 3143823
 Prep Method: TX1005P
 % Moisture:
 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<50.0	50.0	mg/kg	12.03.2020 02:03	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<50.0	50.0	mg/kg	12.03.2020 02:03	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.03.2020 02:03	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	12.03.2020 02:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	106	%	70-130	12.03.2020 02:03	
1-Chlorooctane	111-85-3	78	%	70-130	12.03.2020 02:03	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **Hill Side soil**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-003

Date Collected: 11.24.2020 15:54

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5035A

Tech: SAD

Analyst: SAD

Date Prep: 12.07.2020 13:00

% Moisture:

Basis: Wet Weight

Seq Number: 3144135

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	12.07.2020 13:59	U	1
Bromobenzene	108-86-1	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Bromochloromethane	74-97-5	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Bromodichloromethane	75-27-4	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Bromoform	75-25-2	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Methyl bromide	74-83-9	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
2-Butanone	78-93-3	<0.0200	0.0200	mg/kg	12.07.2020 13:59	U	1
tert-Butylbenzene	98-06-6	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Sec-Butylbenzene	135-98-8	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
n-Butylbenzene	104-51-8	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Carbon Tetrachloride	56-23-5	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Chlorobenzene	108-90-7	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Chloroethane	75-00-3	<0.0100	0.0100	mg/kg	12.07.2020 13:59	U	1
Chloroform	67-66-3	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Methyl Chloride	74-87-3	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
2-Chlorotoluene	95-49-8	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
4-Chlorotoluene	106-43-4	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Dibromochloromethane	124-48-1	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,2-Dibromoethane	106-93-4	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Methylene Bromide	74-95-3	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,2-Dichlorobenzene	95-50-1	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,3-Dichlorobenzene	541-73-1	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,4-Dichlorobenzene	106-46-7	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Dichlorodifluoromethane	75-71-8	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,2-Dichloroethane	107-06-2	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,1-Dichloroethane	75-34-3	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
trans-1,2-dichloroethylene	156-60-5	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,1-Dichloroethene	75-35-4	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
2,2-Dichloropropane	594-20-7	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,3-Dichloropropane	142-28-9	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,2-Dichloropropane	78-87-5	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
trans-1,3-dichloropropene	10061-02-6	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,1-Dichloropropene	563-58-6	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	12.07.2020 13:59	U	1
Hexachlorobutadiene	87-68-3	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **Hill Side soil**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-003

Date Collected: 11.24.2020 15:54

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5035A

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 12.07.2020 13:00

Basis: Wet Weight

Seq Number: 3144135

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Isopropylbenzene	98-82-8	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Methylene Chloride	75-09-2	<0.0200	0.0200	mg/kg	12.07.2020 13:59	U	1
MTBE	1634-04-4	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Naphthalene	91-20-3	<0.0100	0.0100	mg/kg	12.07.2020 13:59	U	1
n-Propylbenzene	103-65-1	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Styrene	100-42-5	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Tetrachloroethylene	127-18-4	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Toluene	108-88-3	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,1,2-Trichloroethane	79-00-5	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,1,1-Trichloroethane	71-55-6	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Trichloroethylene	79-01-6	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Trichlorofluoromethane	75-69-4	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,2,3-Trichloropropane	96-18-4	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
Vinyl Chloride	75-01-4	<0.00500	0.00500	mg/kg	12.07.2020 13:59	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	12.07.2020 13:59	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	12.07.2020 13:59	U	1
Total Xylenes	1330-20-7	<0.001000	0.001000	mg/kg	12.07.2020 13:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	101	%	53-142	12.07.2020 13:59	
1,2-Dichloroethane-D4	17060-07-0	103	%	56-150	12.07.2020 13:59	
Toluene-D8	2037-26-5	98	%	70-130	12.07.2020 13:59	
4-Bromofluorobenzene	460-00-4	98	%	68-152	12.07.2020 13:59	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX L1103 Spike test

Sample Id: **Hill Side soil**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-003

Date Collected: 11.24.2020 15:54

Analytical Method: TCLP BTEX by SW8260C

Prep Method: SW5030B

Tech: EZA

Analyst: NAL

Date Prep: 12.03.2020 13:30

% Moisture:

SUB: T104704215-20-38

Seq Number: 3143861

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00500	0.00500	mg/L	12.03.2020 14:59	U	5
Ethylbenzene	100-41-4	<0.00500	0.00500	mg/L	12.03.2020 14:59	U	5
Toluene	108-88-3	<0.00500	0.00500	mg/L	12.03.2020 14:59	U	5
o-Xylene	95-47-6	<0.00500	0.00500	mg/L	12.03.2020 14:59	U	5
m,p-Xylenes	179601-23-1	<0.0500	0.0500	mg/L	12.03.2020 14:59	U	5
Total Xylenes	1330-20-7	<0.005000	0.005000	mg/L	12.03.2020 14:59	U	5
Total BTEX		<0.005000	0.005000	mg/L	12.03.2020 14:59	U	5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	75-131	12.03.2020 14:59	
1,2-Dichloroethane-D4	17060-07-0	105	%	63-144	12.03.2020 14:59	
Toluene-D8	2037-26-5	104	%	80-117	12.03.2020 14:59	
4-Bromofluorobenzene	460-00-4	101	%	74-124	12.03.2020 14:59	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **Side of afton rd** Matrix: Soil Date Received: 11.24.2020 16:55
 Lab Sample Id: 679047-004 Date Collected: 11.24.2020 15:51
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: JYM
 Analyst: JYM Date Prep: 12.03.2020 15:00 % Moisture:
 Seq Number: 3143882 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.4	10.0	mg/kg	12.03.2020 18:56		1

Analytical Method: Soil pH by SW-846 9045C

Tech: ANP
 Analyst: ANP
 Seq Number: 3143682
 % Moisture:
 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
pH	12408-02-5	9.27		SU	12.02.2020 12:06		1
Soil pH meas. in water at	TEMP	20.3		Deg C	12.02.2020 12:06		1

Analytical Method: TPH by Texas1005

Tech: MJTR
 Analyst: ISU Date Prep: 12.02.2020 09:08
 Seq Number: 3143823
 Prep Method: TX1005P
 % Moisture:
 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<49.8	49.8	mg/kg	12.03.2020 02:43	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<49.8	49.8	mg/kg	12.03.2020 02:43	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<49.8	49.8	mg/kg	12.03.2020 02:43	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	12.03.2020 02:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	95	%	70-130	12.03.2020 02:43	
1-Chlorooctane	111-85-3	111	%	70-130	12.03.2020 02:43	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: Side of afton rd

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-004

Date Collected: 11.24.2020 15:51

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5035A

Tech: SAD

Analyst: SAD

Date Prep: 12.07.2020 13:00

% Moisture:

Basis: Wet Weight

Seq Number: 3144135

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	12.07.2020 14:19	U	1
Bromobenzene	108-86-1	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Bromochloromethane	74-97-5	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Bromodichloromethane	75-27-4	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Bromoform	75-25-2	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Methyl bromide	74-83-9	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
2-Butanone	78-93-3	<0.0200	0.0200	mg/kg	12.07.2020 14:19	U	1
tert-Butylbenzene	98-06-6	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Sec-Butylbenzene	135-98-8	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
n-Butylbenzene	104-51-8	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Carbon Tetrachloride	56-23-5	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Chlorobenzene	108-90-7	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Chloroethane	75-00-3	<0.0100	0.0100	mg/kg	12.07.2020 14:19	U	1
Chloroform	67-66-3	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Methyl Chloride	74-87-3	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
2-Chlorotoluene	95-49-8	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
4-Chlorotoluene	106-43-4	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Dibromochloromethane	124-48-1	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,2-Dibromoethane	106-93-4	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Methylene Bromide	74-95-3	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,2-Dichlorobenzene	95-50-1	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,3-Dichlorobenzene	541-73-1	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,4-Dichlorobenzene	106-46-7	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Dichlorodifluoromethane	75-71-8	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,2-Dichloroethane	107-06-2	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,1-Dichloroethane	75-34-3	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
trans-1,2-dichloroethylene	156-60-5	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,1-Dichloroethene	75-35-4	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
2,2-Dichloropropane	594-20-7	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,3-Dichloropropane	142-28-9	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,2-Dichloropropane	78-87-5	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
trans-1,3-dichloropropene	10061-02-6	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,1-Dichloropropene	563-58-6	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	12.07.2020 14:19	U	1
Hexachlorobutadiene	87-68-3	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: Side of afton rd

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-004

Date Collected: 11.24.2020 15:51

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5035A

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 12.07.2020 13:00

Basis: Wet Weight

Seq Number: 3144135

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Isopropylbenzene	98-82-8	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Methylene Chloride	75-09-2	<0.0200	0.0200	mg/kg	12.07.2020 14:19	U	1
MTBE	1634-04-4	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Naphthalene	91-20-3	<0.0100	0.0100	mg/kg	12.07.2020 14:19	U	1
n-Propylbenzene	103-65-1	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Styrene	100-42-5	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Tetrachloroethylene	127-18-4	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Toluene	108-88-3	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,1,2-Trichloroethane	79-00-5	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,1,1-Trichloroethane	71-55-6	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Trichloroethylene	79-01-6	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Trichlorofluoromethane	75-69-4	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,2,3-Trichloropropane	96-18-4	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
Vinyl Chloride	75-01-4	<0.00500	0.00500	mg/kg	12.07.2020 14:19	U	1
o-Xylene	95-47-6	0.00103	0.00100	mg/kg	12.07.2020 14:19		1
m,p-Xylenes	179601-23-1	0.00236	0.00200	mg/kg	12.07.2020 14:19		1
Total Xylenes	1330-20-7	0.003390	0.001000	mg/kg	12.07.2020 14:19		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	101	%	53-142	12.07.2020 14:19	
1,2-Dichloroethane-D4	17060-07-0	103	%	56-150	12.07.2020 14:19	
Toluene-D8	2037-26-5	98	%	70-130	12.07.2020 14:19	
4-Bromofluorobenzene	460-00-4	99	%	68-152	12.07.2020 14:19	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX L1103 Spike test

Sample Id: **Side of afton rd**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-004

Date Collected: 11.24.2020 15:51

Analytical Method: TCLP BTEX by SW8260C

Prep Method: SW5030B

Tech: EZA

Analyst: NAL

Date Prep: 12.03.2020 13:30

% Moisture:

SUB: T104704215-20-38

Seq Number: 3143861

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00500	0.00500	mg/L	12.03.2020 15:17	U	5
Ethylbenzene	100-41-4	<0.00500	0.00500	mg/L	12.03.2020 15:17	U	5
Toluene	108-88-3	<0.00500	0.00500	mg/L	12.03.2020 15:17	U	5
o-Xylene	95-47-6	<0.00500	0.00500	mg/L	12.03.2020 15:17	U	5
m,p-Xylenes	179601-23-1	<0.0500	0.0500	mg/L	12.03.2020 15:17	U	5
Total Xylenes	1330-20-7	<0.005000	0.005000	mg/L	12.03.2020 15:17	U	5
Total BTEX		<0.005000	0.005000	mg/L	12.03.2020 15:17	U	5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	104	%	75-131	12.03.2020 15:17	
1,2-Dichloroethane-D4	17060-07-0	107	%	63-144	12.03.2020 15:17	
Toluene-D8	2037-26-5	105	%	80-117	12.03.2020 15:17	
4-Bromofluorobenzene	460-00-4	100	%	74-124	12.03.2020 15:17	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **End of spill** Matrix: Soil Date Received: 11.24.2020 16:55
 Lab Sample Id: 679047-005 Date Collected: 11.24.2020 15:47
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: JYM
 Analyst: JYM Date Prep: 12.03.2020 15:00 % Moisture:
 Seq Number: 3143882 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.1	10.1	mg/kg	12.03.2020 19:12		1

Analytical Method: Soil pH by SW-846 9045C

Tech: ANP
 Analyst: ANP
 Seq Number: 3143682
 % Moisture:
 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
pH	12408-02-5	9.22		SU	12.02.2020 12:06		1
Soil pH meas. in water at	TEMP	20.8		Deg C	12.02.2020 12:06		1

Analytical Method: TPH by Texas1005

Tech: MJTR
 Analyst: ISU Date Prep: 12.02.2020 09:11
 Seq Number: 3143823
 Prep Method: TX1005P
 % Moisture:
 Basis: Wet Weight
 SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<49.8	49.8	mg/kg	12.03.2020 03:02	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<49.8	49.8	mg/kg	12.03.2020 03:02	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<49.8	49.8	mg/kg	12.03.2020 03:02	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	12.03.2020 03:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	92	%	70-130	12.03.2020 03:02	
1-Chlorooctane	111-85-3	112	%	70-130	12.03.2020 03:02	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **End of spill**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-005

Date Collected: 11.24.2020 15:47

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5035A

Tech: SAD

Analyst: SAD

Date Prep: 12.07.2020 13:00

% Moisture:

Basis: Wet Weight

Seq Number: 3144135

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	12.07.2020 14:39	U	1
Bromobenzene	108-86-1	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Bromochloromethane	74-97-5	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Bromodichloromethane	75-27-4	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Bromoform	75-25-2	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Methyl bromide	74-83-9	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
2-Butanone	78-93-3	<0.0200	0.0200	mg/kg	12.07.2020 14:39	U	1
tert-Butylbenzene	98-06-6	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Sec-Butylbenzene	135-98-8	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
n-Butylbenzene	104-51-8	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Carbon Tetrachloride	56-23-5	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Chlorobenzene	108-90-7	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Chloroethane	75-00-3	<0.0100	0.0100	mg/kg	12.07.2020 14:39	U	1
Chloroform	67-66-3	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Methyl Chloride	74-87-3	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
2-Chlorotoluene	95-49-8	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
4-Chlorotoluene	106-43-4	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Dibromochloromethane	124-48-1	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,2-Dibromoethane	106-93-4	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Methylene Bromide	74-95-3	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,2-Dichlorobenzene	95-50-1	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,3-Dichlorobenzene	541-73-1	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,4-Dichlorobenzene	106-46-7	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Dichlorodifluoromethane	75-71-8	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,2-Dichloroethane	107-06-2	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,1-Dichloroethane	75-34-3	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
trans-1,2-dichloroethylene	156-60-5	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,1-Dichloroethene	75-35-4	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
2,2-Dichloropropane	594-20-7	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,3-Dichloropropane	142-28-9	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,2-Dichloropropane	78-87-5	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
trans-1,3-dichloropropene	10061-02-6	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,1-Dichloropropene	563-58-6	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	12.07.2020 14:39	U	1
Hexachlorobutadiene	87-68-3	<0.00500	0.00500	mg/kg	12.07.2020 14:39	UX	1



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX

L1103 Spike test

Sample Id: **End of spill**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-005

Date Collected: 11.24.2020 15:47

Analytical Method: VOCs By SW846 8260C

Prep Method: SW5035A

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 12.07.2020 13:00

Basis: Wet Weight

Seq Number: 3144135

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Isopropylbenzene	98-82-8	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Methylene Chloride	75-09-2	<0.0200	0.0200	mg/kg	12.07.2020 14:39	U	1
MTBE	1634-04-4	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Naphthalene	91-20-3	<0.0100	0.0100	mg/kg	12.07.2020 14:39	U	1
n-Propylbenzene	103-65-1	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Styrene	100-42-5	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Tetrachloroethylene	127-18-4	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Toluene	108-88-3	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,1,2-Trichloroethane	79-00-5	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,1,1-Trichloroethane	71-55-6	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Trichloroethylene	79-01-6	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Trichlorofluoromethane	75-69-4	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,2,3-Trichloropropane	96-18-4	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
Vinyl Chloride	75-01-4	<0.00500	0.00500	mg/kg	12.07.2020 14:39	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	12.07.2020 14:39	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	12.07.2020 14:39	U	1
Total Xylenes	1330-20-7	<0.001000	0.001000	mg/kg	12.07.2020 14:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	102	%	53-142	12.07.2020 14:39	
1,2-Dichloroethane-D4	17060-07-0	103	%	56-150	12.07.2020 14:39	
Toluene-D8	2037-26-5	98	%	70-130	12.07.2020 14:39	
4-Bromofluorobenzene	460-00-4	98	%	68-152	12.07.2020 14:39	



Certificate of Analytical Results 679047

Kinder Morgan / El Paso Natural Gas - El Paso, EL Paso, TX L1103 Spike test

Sample Id: **End of spill**

Matrix: Soil

Date Received: 11.24.2020 16:55

Lab Sample Id: 679047-005

Date Collected: 11.24.2020 15:47

Analytical Method: TCLP BTEX by SW8260C

Prep Method: SW5030B

Tech: EZA

Analyst: NAL

Date Prep: 12.03.2020 13:30

% Moisture:

Seq Number: 3143861

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00500	0.00500	mg/L	12.03.2020 15:35	U	5
Ethylbenzene	100-41-4	0.00650	0.00500	mg/L	12.03.2020 15:35		5
Toluene	108-88-3	0.0165	0.00500	mg/L	12.03.2020 15:35		5
o-Xylene	95-47-6	0.0128	0.00500	mg/L	12.03.2020 15:35		5
m,p-Xylenes	179601-23-1	<0.0500	0.0500	mg/L	12.03.2020 15:35	U	5
Total Xylenes	1330-20-7	0.01280	0.005000	mg/L	12.03.2020 15:35		5
Total BTEX		0.03580	0.005000	mg/L	12.03.2020 15:35		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	104	%	75-131	12.03.2020 15:35	
1,2-Dichloroethane-D4	17060-07-0	109	%	63-144	12.03.2020 15:35	
Toluene-D8	2037-26-5	103	%	80-117	12.03.2020 15:35	
4-Bromofluorobenzene	460-00-4	101	%	74-124	12.03.2020 15:35	

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Kinder Morgan / El Paso Natural Gas - El Paso

L1103 Spike test

Analytical Method: Chloride by EPA 300

Seq Number: 3143882

MB Sample Id: 7716361-1-BLK

Matrix: Solid

LCS Sample Id: 7716361-1-BKS

Prep Method: E300P

Date Prep: 12.03.2020

LCSD Sample Id: 7716361-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	100	103	103	104	104	80-120	1	20	mg/kg	12.03.2020 16:04	

Analytical Method: Chloride by EPA 300

Seq Number: 3143882

Parent Sample Id: 679047-001

Matrix: Soil

MS Sample Id: 679047-001 S

Prep Method: E300P

Date Prep: 12.03.2020

MSD Sample Id: 679047-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	100	104	104	104	104	80-120	0	20	mg/kg	12.03.2020 16:51	

Analytical Method: Chloride by EPA 300

Seq Number: 3143882

Parent Sample Id: 679047-002

Matrix: Soil

MS Sample Id: 679047-002 S

Prep Method: E300P

Date Prep: 12.03.2020

MSD Sample Id: 679047-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.7	100	118	92	118	92	80-120	0	20	mg/kg	12.03.2020 17:38	

Analytical Method: Soil pH by SW-846 9045C

Seq Number: 3143682

Parent Sample Id: 679047-001

Matrix: Soil

MD Sample Id: 679047-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
pH	9.390	9.420	0	20	SU	12.02.2020 12:06	
Soil pH meas. in water at	20.30	20.60	1	25	Deg C	12.02.2020 12:06	

Analytical Method: Soil pH by SW-846 9045C

Seq Number: 3143682

Parent Sample Id: 679120-001

Matrix: Soil

MD Sample Id: 679120-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
pH	9.250	9.140	1	20	SU	12.02.2020 12:06	
Soil pH meas. in water at	20.60	20.50	0	25	Deg C	12.02.2020 12:06	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Kinder Morgan / El Paso Natural Gas - El Paso

L1103 Spike test

Analytical Method: TPH by Texas1005

Seq Number: 3143823

MB Sample Id: 7716213-1-BLK

Matrix: Solid

LCS Sample Id: 7716213-1-BKS

Prep Method: TX1005P

Date Prep: 12.02.2020

LCSD Sample Id: 7716213-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<50.00	1000	1209	121	1194	119	75-125	1	20	mg/kg	12.02.2020 16:17	
>C12-C28 Diesel Range Hydrocarbons	<50.00	1000	1110	111	1060	106	75-125	5	20	mg/kg	12.02.2020 16:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
o-Terphenyl	91		99		101		70-130	%	12.02.2020 16:17
1-Chlorooctane	108		125		122		70-130	%	12.02.2020 16:17

Analytical Method: TPH by Texas1005

Seq Number: 3143823

Matrix: Solid

MB Sample Id: 7716213-1-BLK

Prep Method: TX1005P

Date Prep: 12.02.2020

Parameter	MB Result	Units	Analysis Date	Flag
>C28-C35 Oil Range Hydrocarbons	<50.00	mg/kg	12.02.2020 15:56	

Analytical Method: TPH by Texas1005

Seq Number: 3143823

Matrix: Soil

Parent Sample Id: 679285-002

MS Sample Id: 679285-002 S

Prep Method: TX1005P

Date Prep: 12.02.2020

MSD Sample Id: 679285-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<57.79	1160	1385	119	1295	112	75-125	7	20	mg/kg	12.02.2020 17:20	
>C12-C28 Diesel Range Hydrocarbons	183.5	1160	1240	91	1180	86	75-125	5	20	mg/kg	12.02.2020 17:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
o-Terphenyl	100		93		70-130	%	12.02.2020 17:20
1-Chlorooctane	128		118		70-130	%	12.02.2020 17:20

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Kinder Morgan / El Paso Natural Gas - El Paso

L1103 Spike test

Analytical Method: TCLP BTEX by SW8260C

Seq Number: 3143861

MB Sample Id: 7716374-1-BLK

Matrix: Water

LCS Sample Id: 7716374-1-BKS

Prep Method: SW5030B

Date Prep: 12.03.2020

LCSD Sample Id: 7716374-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.005000	0.2500	0.2634	105	0.2624	105	66-142	0	25	mg/L	12.03.2020 09:16	
Ethylbenzene	<0.005000	0.2500	0.2630	105	0.2625	105	75-125	0	25	mg/L	12.03.2020 09:16	
Toluene	<0.005000	0.2500	0.2576	103	0.2614	105	59-139	1	25	mg/L	12.03.2020 09:16	
o-Xylene	<0.005000	0.2500	0.2623	105	0.2612	104	75-125	0	25	mg/L	12.03.2020 09:16	
m,p-Xylenes	<0.05000	0.5000	0.5226	105	0.5267	105	75-125	1	25	mg/L	12.03.2020 09:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	101		96		101		75-131	%	12.03.2020 09:16
1,2-Dichloroethane-D4	103		95		98		63-144	%	12.03.2020 09:16
Toluene-D8	104		99		100		80-117	%	12.03.2020 09:16
4-Bromofluorobenzene	106		99		101		74-124	%	12.03.2020 09:16

Analytical Method: TCLP BTEX by SW8260C

Seq Number: 3143988

MB Sample Id: 7716432-1-BLK

Matrix: Water

LCS Sample Id: 7716432-1-BKS

Prep Method: SW5030B

Date Prep: 12.04.2020

LCSD Sample Id: 7716432-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.005000	0.2500	0.2689	108	0.2546	102	66-142	5	25	mg/L	12.04.2020 09:36	
Ethylbenzene	<0.005000	0.2500	0.2611	104	0.2500	100	75-125	4	25	mg/L	12.04.2020 09:36	
Toluene	<0.005000	0.2500	0.2555	102	0.2474	99	59-139	3	25	mg/L	12.04.2020 09:36	
o-Xylene	<0.005000	0.2500	0.2561	102	0.2482	99	75-125	3	25	mg/L	12.04.2020 09:36	
m,p-Xylenes	<0.05000	0.5000	0.5151	103	0.4967	99	75-125	4	25	mg/L	12.04.2020 09:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	105		101		101		75-131	%	12.04.2020 09:36
1,2-Dichloroethane-D4	104		99		95		63-144	%	12.04.2020 09:36
Toluene-D8	103		98		99		80-117	%	12.04.2020 09:36
4-Bromofluorobenzene	103		97		103		74-124	%	12.04.2020 09:36

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Kinder Morgan / El Paso Natural Gas - El Paso

L1103 Spike test

Analytical Method: TCLP BTEX by SW8260C

Seq Number: 3143861

Parent Sample Id: 679410-002

Matrix: Soil

MS Sample Id: 679410-002 S

Prep Method: SW5030B

Date Prep: 12.03.2020

MSD Sample Id: 679410-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.05000	2.500	2.861	114	2.880	115	66-142	1	25	mg/L	12.03.2020 10:28	
Ethylbenzene	<0.05000	2.500	2.869	115	3.011	120	75-125	5	25	mg/L	12.03.2020 10:28	
Toluene	<0.05000	2.500	2.835	113	2.982	119	59-139	5	25	mg/L	12.03.2020 10:28	
o-Xylene	<0.05000	2.500	2.863	115	2.982	119	75-125	4	25	mg/L	12.03.2020 10:28	
m,p-Xylenes	<0.5000	5.000	5.745	115	5.996	120	75-125	4	25	mg/L	12.03.2020 10:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	98		98		75-131	%	12.03.2020 10:28
1,2-Dichloroethane-D4	107		96		63-144	%	12.03.2020 10:28
Toluene-D8	99		102		80-117	%	12.03.2020 10:28
4-Bromofluorobenzene	100		102		74-124	%	12.03.2020 10:28

Analytical Method: TCLP BTEX by SW8260C

Seq Number: 3143988

Parent Sample Id: 679047-001

Matrix: Soil

MS Sample Id: 679047-001 S

Prep Method: SW5030B

Date Prep: 12.04.2020

MSD Sample Id: 679047-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.005000	0.2500	0.2550	102	0.2641	106	66-142	4	25	mg/L	12.04.2020 10:32	
Ethylbenzene	0.006900	0.2500	0.2629	102	0.2685	105	75-125	2	25	mg/L	12.04.2020 10:32	
Toluene	0.01150	0.2500	0.2625	100	0.2642	101	59-139	1	25	mg/L	12.04.2020 10:32	
o-Xylene	0.005450	0.2500	0.2615	102	0.2632	103	75-125	1	25	mg/L	12.04.2020 10:32	
m,p-Xylenes	<0.05000	0.5000	0.5122	102	0.5274	105	75-125	3	25	mg/L	12.04.2020 10:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	100		105		75-131	%	12.04.2020 10:32
1,2-Dichloroethane-D4	99		97		63-144	%	12.04.2020 10:32
Toluene-D8	101		98		80-117	%	12.04.2020 10:32
4-Bromofluorobenzene	102		99		74-124	%	12.04.2020 10:32

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Kinder Morgan / El Paso Natural Gas - El Paso

L1103 Spike test

Analytical Method: VOCs By SW846 8260C

Seq Number: 3144135

Matrix: Solid

Prep Method: SW5035A

Date Prep: 12.07.2020

MB Sample Id: 7716571-1-BLK

LCS Sample Id: 7716571-1-BKS

LCSD Sample Id: 7716571-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.0500	0.0473	95	0.0464	93	66-142	2	25	mg/kg	12.07.2020 10:43	
Bromobenzene	<0.00500	0.0500	0.0451	90	0.0452	90	75-125	0	25	mg/kg	12.07.2020 10:43	
Bromochloromethane	<0.00500	0.0500	0.0462	92	0.0466	93	60-140	1	25	mg/kg	12.07.2020 10:43	
Bromodichloromethane	<0.00500	0.0500	0.0454	91	0.0450	90	75-125	1	25	mg/kg	12.07.2020 10:43	
Bromoform	<0.00500	0.0500	0.0494	99	0.0503	101	75-125	2	25	mg/kg	12.07.2020 10:43	
Methyl bromide	<0.00500	0.0500	0.0416	83	0.0410	82	60-140	1	25	mg/kg	12.07.2020 10:43	
2-Butanone	<0.0200	0.250	0.223	89	0.252	101	75-125	12	25	mg/kg	12.07.2020 10:43	
tert-Butylbenzene	<0.00500	0.0500	0.0481	96	0.0472	94	75-125	2	25	mg/kg	12.07.2020 10:43	
Sec-Butylbenzene	<0.00500	0.0500	0.0492	98	0.0480	96	75-125	2	25	mg/kg	12.07.2020 10:43	
n-Butylbenzene	<0.00500	0.0500	0.0499	100	0.0486	97	75-125	3	25	mg/kg	12.07.2020 10:43	
Carbon Tetrachloride	<0.00500	0.0500	0.0524	105	0.0505	101	62-125	4	25	mg/kg	12.07.2020 10:43	
Chlorobenzene	<0.00500	0.0500	0.0468	94	0.0467	93	60-133	0	25	mg/kg	12.07.2020 10:43	
Chloroethane	<0.0100	0.0500	0.0460	92	0.0456	91	60-140	1	25	mg/kg	12.07.2020 10:43	
Chloroform	<0.00500	0.0500	0.0473	95	0.0461	92	74-125	3	25	mg/kg	12.07.2020 10:43	
Methyl Chloride	<0.00500	0.0500	0.0432	86	0.0426	85	60-140	1	25	mg/kg	12.07.2020 10:43	
2-Chlorotoluene	<0.00500	0.0500	0.0465	93	0.0465	93	73-125	0	25	mg/kg	12.07.2020 10:43	
4-Chlorotoluene	<0.00500	0.0500	0.0454	91	0.0457	91	74-125	1	25	mg/kg	12.07.2020 10:43	
p-Cymene (p-Isopropyltoluene)	<0.00500	0.0500	0.0495	99	0.0489	98	75-125	1	25	mg/kg	12.07.2020 10:43	
1,2-Dibromo-3-Chloropropane	<0.00500	0.0500	0.0448	90	0.0473	95	59-125	5	25	mg/kg	12.07.2020 10:43	
Dibromochloromethane	<0.00500	0.0500	0.0470	94	0.0473	95	73-125	1	25	mg/kg	12.07.2020 10:43	
1,2-Dibromoethane	<0.00500	0.0500	0.0458	92	0.0474	95	73-125	3	25	mg/kg	12.07.2020 10:43	
Methylene Bromide	<0.00500	0.0500	0.0443	89	0.0461	92	69-127	4	25	mg/kg	12.07.2020 10:43	
1,2-Dichlorobenzene	<0.00500	0.0500	0.0461	92	0.0466	93	75-125	1	25	mg/kg	12.07.2020 10:43	
1,3-Dichlorobenzene	<0.00500	0.0500	0.0464	93	0.0463	93	75-125	0	25	mg/kg	12.07.2020 10:43	
1,4-Dichlorobenzene	<0.00500	0.0500	0.0458	92	0.0453	91	75-125	1	25	mg/kg	12.07.2020 10:43	
Dichlorodifluoromethane	<0.00500	0.0500	0.0468	94	0.0455	91	65-135	3	25	mg/kg	12.07.2020 10:43	
1,2-Dichloroethane	<0.00500	0.0500	0.0452	90	0.0450	90	68-127	0	25	mg/kg	12.07.2020 10:43	
1,1-Dichloroethane	<0.00500	0.0500	0.0486	97	0.0458	92	72-125	6	25	mg/kg	12.07.2020 10:43	
trans-1,2-dichloroethylene	<0.00500	0.0500	0.0512	102	0.0485	97	75-125	5	25	mg/kg	12.07.2020 10:43	
cis-1,2-Dichloroethylene	<0.00500	0.0500	0.0466	93	0.0460	92	75-125	1	25	mg/kg	12.07.2020 10:43	
1,1-Dichloroethene	<0.00500	0.0500	0.0509	102	0.0494	99	59-172	3	25	mg/kg	12.07.2020 10:43	
2,2-Dichloropropane	<0.00500	0.0500	0.0492	98	0.0476	95	75-125	3	25	mg/kg	12.07.2020 10:43	
1,3-Dichloropropane	<0.00500	0.0500	0.0444	89	0.0450	90	75-125	1	25	mg/kg	12.07.2020 10:43	
1,2-Dichloropropane	<0.00500	0.0500	0.0453	91	0.0463	93	74-125	2	25	mg/kg	12.07.2020 10:43	
trans-1,3-dichloropropene	<0.00500	0.0500	0.0455	91	0.0457	91	66-125	0	25	mg/kg	12.07.2020 10:43	
1,1-Dichloropropene	<0.00500	0.0500	0.0509	102	0.0496	99	75-125	3	25	mg/kg	12.07.2020 10:43	
cis-1,3-Dichloropropene	<0.00500	0.0500	0.0457	91	0.0458	92	74-125	0	25	mg/kg	12.07.2020 10:43	
Ethylbenzene	<0.00100	0.0500	0.0487	97	0.0477	95	75-125	2	25	mg/kg	12.07.2020 10:43	
Hexachlorobutadiene	<0.00500	0.0500	0.0556	111	0.0540	108	75-125	3	25	mg/kg	12.07.2020 10:43	
Isopropylbenzene	<0.00500	0.0500	0.0505	101	0.0495	99	75-125	2	25	mg/kg	12.07.2020 10:43	
Methylene Chloride	<0.0200	0.0500	0.0462	92	0.0460	92	75-125	0	25	mg/kg	12.07.2020 10:43	
MTBE	<0.00500	0.0500	0.0474	95	0.0477	95	60-140	1	25	mg/kg	12.07.2020 10:43	
Naphthalene	<0.0100	0.0500	0.0467	93	0.0469	94	70-130	0	25	mg/kg	12.07.2020 10:43	
n-Propylbenzene	<0.00500	0.0500	0.0480	96	0.0476	95	75-125	1	25	mg/kg	12.07.2020 10:43	
Styrene	<0.00500	0.0500	0.0482	96	0.0478	96	75-125	1	25	mg/kg	12.07.2020 10:43	
1,1,1,2-Tetrachloroethane	<0.00500	0.0500	0.0488	98	0.0488	98	72-125	0	25	mg/kg	12.07.2020 10:43	
1,1,2,2-Tetrachloroethane	<0.00500	0.0500	0.0432	86	0.0448	90	74-125	4	25	mg/kg	12.07.2020 10:43	
Tetrachloroethylene	<0.00500	0.0500	0.0520	104	0.0508	102	71-125	2	25	mg/kg	12.07.2020 10:43	
Toluene	<0.00500	0.0500	0.0450	90	0.0439	88	59-139	2	25	mg/kg	12.07.2020 10:43	
1,2,3-Trichlorobenzene	<0.00500	0.0500	0.0508	102	0.0510	102	75-137	0	25	mg/kg	12.07.2020 10:43	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Kinder Morgan / El Paso Natural Gas - El Paso

L1103 Spike test

Analytical Method: VOCs By SW846 8260C

Seq Number: 3144135

MB Sample Id: 7716571-1-BLK

Matrix: Solid

LCS Sample Id: 7716571-1-BKS

Prep Method: SW5035A

Date Prep: 12.07.2020

LCSD Sample Id: 7716571-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00500	0.0500	0.0512	102	0.0510	102	75-135	0	25	mg/kg	12.07.2020 10:43	
1,1,2-Trichloroethane	<0.00500	0.0500	0.0445	89	0.0453	91	75-127	2	25	mg/kg	12.07.2020 10:43	
1,1,1-Trichloroethane	<0.00500	0.0500	0.0502	100	0.0483	97	75-125	4	25	mg/kg	12.07.2020 10:43	
Trichloroethylene	<0.00500	0.0500	0.0487	97	0.0474	95	62-137	3	25	mg/kg	12.07.2020 10:43	
Trichlorofluoromethane	<0.00500	0.0500	0.0496	99	0.0475	95	67-125	4	25	mg/kg	12.07.2020 10:43	
1,2,3-Trichloropropane	<0.00500	0.0500	0.0434	87	0.0458	92	75-125	5	25	mg/kg	12.07.2020 10:43	
1,2,4-Trimethylbenzene	<0.00500	0.0500	0.0464	93	0.0466	93	75-125	0	25	mg/kg	12.07.2020 10:43	
1,3,5-Trimethylbenzene	<0.00500	0.0500	0.0472	94	0.0470	94	70-130	0	25	mg/kg	12.07.2020 10:43	
Vinyl Chloride	<0.00500	0.0500	0.0489	98	0.0458	92	60-140	7	25	mg/kg	12.07.2020 10:43	
o-Xylene	<0.00100	0.0500	0.0474	95	0.0474	95	75-125	0	25	mg/kg	12.07.2020 10:43	
m,p-Xylenes	<0.00200	0.100	0.0964	96	0.0950	95	75-125	1	25	mg/kg	12.07.2020 10:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	99		100		100		53-142	%	12.07.2020 10:43
1,2-Dichloroethane-D4	102		99		102		56-150	%	12.07.2020 10:43
Toluene-D8	97		100		98		70-130	%	12.07.2020 10:43
4-Bromofluorobenzene	96		96		96		68-152	%	12.07.2020 10:43

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Kinder Morgan / El Paso Natural Gas - El Paso

L1103 Spike test

Analytical Method: VOCs By SW846 8260C

Seq Number: 3144135

Matrix: Soil

Prep Method: SW5035A

Date Prep: 12.07.2020

Parent Sample Id: 679047-005

MS Sample Id: 679047-005 S

MSD Sample Id: 679047-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000990	0.0495	0.0418	84	0.0413	83	66-142	1	25	mg/kg	12.07.2020 11:24	
Bromobenzene	<0.00495	0.0495	0.0390	79	0.0391	79	75-125	0	25	mg/kg	12.07.2020 11:24	
Bromochloromethane	<0.00495	0.0495	0.0409	83	0.0409	82	60-140	0	25	mg/kg	12.07.2020 11:24	
Bromodichloromethane	<0.00495	0.0495	0.0390	79	0.0394	79	75-125	1	25	mg/kg	12.07.2020 11:24	
Bromoform	<0.00495	0.0495	0.0431	87	0.0435	87	75-125	1	25	mg/kg	12.07.2020 11:24	
Methyl bromide	<0.00495	0.0495	0.0372	75	0.0369	74	60-140	1	25	mg/kg	12.07.2020 11:24	
2-Butanone	<0.0198	0.248	0.228	92	0.224	90	75-125	2	25	mg/kg	12.07.2020 11:24	
tert-Butylbenzene	<0.00495	0.0495	0.0414	84	0.0405	81	75-125	2	25	mg/kg	12.07.2020 11:24	
Sec-Butylbenzene	<0.00495	0.0495	0.0417	84	0.0403	81	75-125	3	25	mg/kg	12.07.2020 11:24	
n-Butylbenzene	<0.00495	0.0495	0.0403	81	0.0389	78	75-125	4	25	mg/kg	12.07.2020 11:24	
Carbon Tetrachloride	<0.00495	0.0495	0.0458	93	0.0448	90	62-125	2	25	mg/kg	12.07.2020 11:24	
Chlorobenzene	<0.00495	0.0495	0.0409	83	0.0409	82	60-133	0	25	mg/kg	12.07.2020 11:24	
Chloroethane	<0.00990	0.0495	0.0423	85	0.0419	84	60-140	1	25	mg/kg	12.07.2020 11:24	
Chloroform	<0.00495	0.0495	0.0416	84	0.0409	82	74-125	2	25	mg/kg	12.07.2020 11:24	
Methyl Chloride	<0.00495	0.0495	0.0386	78	0.0373	75	60-140	3	25	mg/kg	12.07.2020 11:24	
2-Chlorotoluene	<0.00495	0.0495	0.0409	83	0.0401	81	73-125	2	25	mg/kg	12.07.2020 11:24	
4-Chlorotoluene	<0.00495	0.0495	0.0396	80	0.0390	78	74-125	2	25	mg/kg	12.07.2020 11:24	
p-Cymene (p-Isopropyltoluene)	<0.00495	0.0495	0.0416	84	0.0405	81	75-125	3	25	mg/kg	12.07.2020 11:24	
1,2-Dibromo-3-Chloropropane	<0.00495	0.0495	0.0396	80	0.0391	79	59-125	1	25	mg/kg	12.07.2020 11:24	
Dibromochloromethane	<0.00495	0.0495	0.0404	82	0.0406	82	73-125	0	25	mg/kg	12.07.2020 11:24	
1,2-Dibromoethane	<0.00495	0.0495	0.0407	82	0.0413	83	73-125	1	25	mg/kg	12.07.2020 11:24	
Methylene Bromide	<0.00495	0.0495	0.0393	79	0.0400	80	69-127	2	25	mg/kg	12.07.2020 11:24	
1,2-Dichlorobenzene	<0.00495	0.0495	0.0387	78	0.0388	78	75-125	0	25	mg/kg	12.07.2020 11:24	
1,3-Dichlorobenzene	<0.00495	0.0495	0.0395	80	0.0394	79	75-125	0	25	mg/kg	12.07.2020 11:24	
1,4-Dichlorobenzene	<0.00495	0.0495	0.0387	78	0.0387	78	75-125	0	25	mg/kg	12.07.2020 11:24	
Dichlorodifluoromethane	<0.00495	0.0495	0.0418	84	0.0401	81	65-135	4	25	mg/kg	12.07.2020 11:24	
1,2-Dichloroethane	<0.00495	0.0495	0.0395	80	0.0400	80	68-127	1	25	mg/kg	12.07.2020 11:24	
1,1-Dichloroethane	<0.00495	0.0495	0.0413	83	0.0412	83	72-125	0	25	mg/kg	12.07.2020 11:24	
trans-1,2-dichloroethylene	<0.00495	0.0495	0.0446	90	0.0437	88	75-125	2	25	mg/kg	12.07.2020 11:24	
cis-1,2-Dichloroethylene	<0.00495	0.0495	0.0408	82	0.0411	83	75-125	1	25	mg/kg	12.07.2020 11:24	
1,1-Dichloroethene	<0.00495	0.0495	0.0463	94	0.0459	92	59-172	1	25	mg/kg	12.07.2020 11:24	
2,2-Dichloropropane	<0.00495	0.0495	0.0437	88	0.0422	85	75-125	3	25	mg/kg	12.07.2020 11:24	
1,3-Dichloropropane	<0.00495	0.0495	0.0386	78	0.0392	79	75-125	2	25	mg/kg	12.07.2020 11:24	
1,2-Dichloropropane	<0.00495	0.0495	0.0399	81	0.0402	81	74-125	1	25	mg/kg	12.07.2020 11:24	
trans-1,3-dichloropropene	<0.00495	0.0495	0.0394	80	0.0393	79	66-125	0	25	mg/kg	12.07.2020 11:24	
1,1-Dichloropropene	<0.00495	0.0495	0.0454	92	0.0435	87	75-125	4	25	mg/kg	12.07.2020 11:24	
cis-1,3-Dichloropropene	<0.00495	0.0495	0.0397	80	0.0400	80	74-125	1	25	mg/kg	12.07.2020 11:24	
Ethylbenzene	<0.000990	0.0495	0.0429	87	0.0420	84	75-125	2	25	mg/kg	12.07.2020 11:24	
Hexachlorobutadiene	<0.00495	0.0495	0.0367	74	0.0370	74	75-125	1	25	mg/kg	12.07.2020 11:24	X
Isopropylbenzene	<0.00495	0.0495	0.0435	88	0.0426	86	75-125	2	25	mg/kg	12.07.2020 11:24	
Methylene Chloride	<0.0198	0.0495	0.0402	81	0.0402	81	75-125	0	25	mg/kg	12.07.2020 11:24	
MTBE	<0.00495	0.0495	0.0414	84	0.0417	84	60-140	1	25	mg/kg	12.07.2020 11:24	
Naphthalene	<0.00990	0.0495	0.0390	79	0.0383	77	70-130	2	25	mg/kg	12.07.2020 11:24	
n-Propylbenzene	<0.00495	0.0495	0.0425	86	0.0416	84	75-125	2	25	mg/kg	12.07.2020 11:24	
Styrene	<0.00495	0.0495	0.0411	83	0.0408	82	75-125	1	25	mg/kg	12.07.2020 11:24	
1,1,1,2-Tetrachloroethane	<0.00495	0.0495	0.0414	84	0.0420	84	72-125	1	25	mg/kg	12.07.2020 11:24	
1,1,2,2-Tetrachloroethane	<0.00495	0.0495	0.0383	77	0.0380	76	74-125	1	25	mg/kg	12.07.2020 11:24	
Tetrachloroethylene	<0.00495	0.0495	0.0456	92	0.0440	88	71-125	4	25	mg/kg	12.07.2020 11:24	
Toluene	<0.00495	0.0495	0.0410	83	0.0399	80	59-139	3	25	mg/kg	12.07.2020 11:24	
1,2,3-Trichlorobenzene	<0.00495	0.0495	0.0381	77	0.0372	75	75-137	2	25	mg/kg	12.07.2020 11:24	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Kinder Morgan / El Paso Natural Gas - El Paso

L1103 Spike test

Analytical Method: VOCs By SW846 8260C

Seq Number: 3144135

Matrix: Soil

Prep Method: SW5035A

Date Prep: 12.07.2020

Parent Sample Id: 679047-005

MS Sample Id: 679047-005 S

MSD Sample Id: 679047-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00495	0.0495	0.0391	79	0.0382	77	75-135	2	25	mg/kg	12.07.2020 11:24	
1,1,2-Trichloroethane	<0.00495	0.0495	0.0387	78	0.0391	79	75-127	1	25	mg/kg	12.07.2020 11:24	
1,1,1-Trichloroethane	<0.00495	0.0495	0.0445	90	0.0433	87	75-125	3	25	mg/kg	12.07.2020 11:24	
Trichloroethylene	<0.00495	0.0495	0.0443	89	0.0443	89	62-137	0	25	mg/kg	12.07.2020 11:24	
Trichlorofluoromethane	<0.00495	0.0495	0.0456	92	0.0432	87	67-125	5	25	mg/kg	12.07.2020 11:24	
1,2,3-Trichloropropane	<0.00495	0.0495	0.0408	82	0.0405	81	75-125	1	25	mg/kg	12.07.2020 11:24	
1,2,4-Trimethylbenzene	<0.00495	0.0495	0.0421	85	0.0408	82	75-125	3	25	mg/kg	12.07.2020 11:24	
1,3,5-Trimethylbenzene	<0.00495	0.0495	0.0416	84	0.0405	81	70-130	3	25	mg/kg	12.07.2020 11:24	
Vinyl Chloride	<0.00495	0.0495	0.0431	87	0.0425	85	60-140	1	25	mg/kg	12.07.2020 11:24	
o-Xylene	<0.000990	0.0495	0.0423	85	0.0415	83	75-125	2	25	mg/kg	12.07.2020 11:24	
m,p-Xylenes	<0.00198	0.0990	0.0858	87	0.0837	84	75-125	2	25	mg/kg	12.07.2020 11:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	100		100		53-142	%	12.07.2020 11:24
1,2-Dichloroethane-D4	103		102		56-150	%	12.07.2020 11:24
Toluene-D8	98		99		70-130	%	12.07.2020 11:24
4-Bromofluorobenzene	97		97		68-152	%	12.07.2020 11:24

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 El Paso, TX (915) 565-3443 Lubbock, TX (806) 794-1296 Caslebad, NM (432) 704-5440
Phoenix AZ (480) 355-1900 Atlanta GA (770) 440-8800 Tampa FL (813) 888-8888 W. Valley, AZ (602) 990-9999

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Project Manager:	Edgar Brown	Bill to: (if different)	
Company Name:	Kinder Morgan	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	205 325 7287	Email:	Edgar_Brown@kindermorgan.com

1689-6701	www.xenoco.com	Page	of
Work Order Comments Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other:			

Project Name:	L1103 Spike Test	Turn Around
Project Number:		Routine ☐
Project Location		Rush:
Sampler's Name:	Logan Stapert	Due Date:
PO #:		Quote #:

ANALYSIS REQUEST										Preservative Codes
										MeOH: Me
										None: NO
										HNO ₃ : HN
										H ₂ SO ₄ : H2

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	18.8 - 18.2						
Received Intact:	Yes No						
Cooler Custody Seals:	Yes No	N/A			Correction Factor:	-0.00	
Sample Custody Seals:	Yes No	N/A			Total Containers:		

oxide
C's
LP BTEX
PH
H

HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day received by the lab, if received by 4:00pm

[illegible]

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas '11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
CLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
1631/245.1/7470

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		11-24-20 4:55pm			11-25-20

Logan Staper
409 828 2301

Inter-Office Shipment

IOS Number : **73986**

Date/Time: 11.30.2020

Created by: Roxana Rodriguez

Please send report to: Holly Taylor

Lab# From: **El Paso**

Delivery Priority:

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Houston**

Air Bill No.: 772218238336

E-Mail: holly.taylor@eurofinset.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
679047-001	S	Background soil	11.24.2020 15:42	E300_CL	Chloride by EPA 300	12.02.2020	12.22.2020	HTA	CL	
679047-001	S	Background soil	11.24.2020 15:42	TX1005	TPH by Texas1005	12.02.2020	12.08.2020	HTA	PHCC12C28 PHCC28C3	
679047-001	W	Background soil	11.24.2020 15:42	SW8260C_TCLP_BT	TCLP BTEX by SW8260C	12.02.2020	12.08.2020	HTA	BZ BZME EBZ XYLENE	
679047-001	S	Background soil	11.24.2020 15:42	SW8260C	VOCs By SW846 8260C	12.02.2020	12.08.2020	HTA	BDCME BRBZ BRCLME	
679047-001	S	Background soil	11.24.2020 15:42	SW9045C	Soil pH by SW-846 9045C	12.02.2020	12.22.2020	HTA		
679047-002	S	Bell hole soil	11.24.2020 15:48	E300_CL	Chloride by EPA 300	12.02.2020	12.22.2020	HTA	CL	
679047-002	S	Bell hole soil	11.24.2020 15:48	TX1005	TPH by Texas1005	12.02.2020	12.08.2020	HTA	PHCC12C28 PHCC28C3	
679047-002	S	Bell hole soil	11.24.2020 15:48	SW8260C	VOCs By SW846 8260C	12.02.2020	12.08.2020	HTA	BDCME BRBZ BRCLME	
679047-002	W	Bell hole soil	11.24.2020 15:48	SW8260C_TCLP_BT	TCLP BTEX by SW8260C	12.02.2020	12.08.2020	HTA	BZ BZME EBZ XYLENE	
679047-002	S	Bell hole soil	11.24.2020 15:48	SW9045C	Soil pH by SW-846 9045C	12.02.2020	12.22.2020	HTA		
679047-003	W	Hill Side soil	11.24.2020 15:54	SW8260C_TCLP_BT	TCLP BTEX by SW8260C	12.02.2020	12.08.2020	HTA	BZ BZME EBZ XYLENE	
679047-003	S	Hill Side soil	11.24.2020 15:54	TX1005	TPH by Texas1005	12.02.2020	12.08.2020	HTA	PHCC12C28 PHCC28C3	
679047-003	S	Hill Side soil	11.24.2020 15:54	SW9045C	Soil pH by SW-846 9045C	12.02.2020	12.22.2020	HTA		
679047-003	S	Hill Side soil	11.24.2020 15:54	E300_CL	Chloride by EPA 300	12.02.2020	12.22.2020	HTA	CL	
679047-003	S	Hill Side soil	11.24.2020 15:54	SW8260C	VOCs By SW846 8260C	12.02.2020	12.08.2020	HTA	BDCME BRBZ BRCLME	
679047-004	S	Side of aften rd	11.24.2020 15:51	E300_CL	Chloride by EPA 300	12.02.2020	12.22.2020	HTA	CL	
679047-004	S	Side of aften rd	11.24.2020 15:51	TX1005	TPH by Texas1005	12.02.2020	12.08.2020	HTA	PHCC12C28 PHCC28C3	
679047-004	S	Side of aften rd	11.24.2020 15:51	SW8260C	VOCs By SW846 8260C	12.02.2020	12.08.2020	HTA	BDCME BRBZ BRCLME	
679047-004	W	Side of aften rd	11.24.2020 15:51	SW8260C_TCLP_BT	TCLP BTEX by SW8260C	12.02.2020	12.08.2020	HTA	BZ BZME EBZ XYLENE	
679047-004	S	Side of aften rd	11.24.2020 15:51	SW9045C	Soil pH by SW-846 9045C	12.02.2020	12.22.2020	HTA		
679047-005	S	End of spill	11.24.2020 15:47	TX1005	TPH by Texas1005	12.02.2020	12.08.2020	HTA	PHCC12C28 PHCC28C3	
679047-005	S	End of spill	11.24.2020 15:47	SW8260C	VOCs By SW846 8260C	12.02.2020	12.08.2020	HTA	BDCME BRBZ BRCLME	
679047-005	S	End of spill	11.24.2020 15:47	SW9045C	Soil pH by SW-846 9045C	12.02.2020	12.22.2020	HTA		
679047-005	W	End of spill	11.24.2020 15:47	SW8260C_TCLP_BT	TCLP BTEX by SW8260C	12.02.2020	12.08.2020	HTA	BZ BZME EBZ XYLENE	
679047-005	S	End of spill	11.24.2020 15:47	E300_CL	Chloride by EPA 300	12.02.2020	12.22.2020	HTA	CL	

Inter-Office Shipment

IOS Number : **73986**

Date/Time: 11.30.2020

Created by: Roxana Rodriguez

Please send report to: Holly Taylor

Lab# From: **El Paso**

Delivery Priority:

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Houston**

Air Bill No.: 772218238336

E-Mail: holly.taylor@eurofinset.com

Inter Office Shipment or Sample Comments:

Relinquished By:



Roxana Rodriguez

Date Relinquished: 11.30.2020

Received By:



Hypatia Keys

Date Received: 12.01.2020

Cooler Temperature: 3.1



Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 73986

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : hou-188

Sent By: Roxana Rodriguez

Date Sent: 11.30.2020 02.03 PM

Received By:

Date Received: 12.01.2020 09.30 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 *Custody Seals Signed and dated for Containers/coolers	N/A
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Hypatia Keys

Date: 12.01.2020

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Kinder Morgan / El Paso Natural Gas - E

Date/ Time Received: 11.24.2020 04.55.00 PM

Work Order #: 679047

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-4

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	18.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	No
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes XENCO-STAFFORD
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Linda Riviello

Date: 11.25.2020

Checklist reviewed by:



Holly Taylor

Date: 11.30.2020



April 30, 2021

State of New Mexico
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 85705

**Subject: El Paso Natural Gas Company, L.L.C., L1103 Spike Test for incident ID (n#)
nRM2035141458**

EPNG is re-submitting the C-141 Form as your department requested additional information on 4/14/2021. This report includes: Site Assessment/ Characterization and Remediation in accordance with 19.15.29.10 NMAC for the facility referenced above. Laboratory analysis show that all constituents are below the Closure Criteria as described on Table 1 of NMAC 19.15.29.10. EPNG is seeking closure of this event.

As described Release Notification Form C-141 submitted to your department on November 23, 2020 (Appendix A), during Spike test project on the El Paso Natural Gas Company (EPNG) 1103 line, EPNG personnel was conducting drying activities after hydrotest was completed on a section of the 1103 line, two foam pigs were stuck on the line on a low section. A poly pig was used to release the foam pigs. Apparently, the line still had water from the hydrotest and when the pigs were released, they came out on the catch area with approximately 18,000 to 20,000 gallons of hydrotest water. Some water was contained on the catch basing ditch area but most of the water traveled approximately less than half mile in total on the sloping side of Afton road approximately three feet wide on each side of the road.

The pipeline was rinse and properly disposed prior to the hydrotest. The released used on the hydro test is from a municipal source. There was no impact to any water body. Volume calculations were estimated based on size of ditch ($15\text{ft} \times 20\text{ft} \times 6\text{ft} = 1800 \text{ cubic ft.} = 13,338 \text{ gallons}$) and the travel distance ($2640\text{ft} \times 6\text{ft} \times .05\text{ft} = 792 \text{ cubic ft.} = 5,861 \text{ gallons}$). Estimated total $13,338 + 5,861 = 19,199$ gallons. Soil samples were collected from different impacted areas. No contamination is shown on the laboratory results on results (Appendixes F, G and H)

Characterization Requirements:**1. Site Map.**

EPNG conducted two sample events. Location maps and scaled site maps showing the impacted area and sample points are located on Appendix B.

2. Depth to water.

Depth to water based on USGS last reading on nearest wells (Appendix C) is between 21.4 and 183 ft. approximately. Table 1 "Closure Criteria for Soils Impacted by a Release" => 50 feet is considered for this event.

3. Wellhead protection area.

There are no water sources within half mile of the release. Appendix D

4. Distance to significant water sources

There are no significant water sources as defined in Subsection P of 19.15.17.7 NMAC. Appendix D.

5. Soil Waste Characteristics.

Appendix B provides a site map. Immediately after the release, contractors were mobilized to collect remaining liquids. Impacted soil was sampled to determine the extent of the impacted area.

There were two sampling events to confirm no contamination above the limits described on Table 1 of 19.15.29.12 of NMAC. Appendix F shows a map of the sampling and the laboratory results for each one of the sampling events. A total of 5 grab samples were collected on 11/23/2020 at .5 feet and sent to a certified laboratory for analysis in accordance with 19.15.29.12 NMAC.

On April 21 2021, a second sampling was conducted at different depth to confirm results from the previous event. A total of 8 samples were gathered this time at .5 and 1 foot and sent to a certified laboratory for analysis in accordance with 19.15.29.12 NMAC.

The laboratory results indicate that there were no contamination detected as a result of this release on any of the samples. Table with laboratory results summarizing the sampling events are listed on Appendixes F and G.



Remediation Plan

As described above, the material released was hydrotest water from a municipal source. In addition, the pipeline was rinse before the hydrotest. Rinse water was collected and properly disposed. Based on analytical reports that show no contamination on any of the sampling locations, EPNG meets the closure criteria as defined on Table I of 19.15.29.12 NMAC.

If you have any questions or need additional information please contact me at 915-587-3694 or by email at cesar_ochoa@kindermorgan.com.

Sincerely,

Cesar G. Ochoa, P.E.

EHS Engineer II



El Paso Natural Gas
Company, L.L.C.
a Kinder Morgan company

APPENDIX A

Notification Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party El Paso Natural Gas Company L.L.C.	OGRID 7046
Contact Name Cesar G Ochoa	Contact Telephone 915-345-6605
Contact email cesar_ochoa@kindermorgan.com	Incident # (assigned by OCD) nRM2035141458
Contact mailing address 8645 Railroad Dr, El Paso TX 79904	

Location of Release Source

Latitude 32.07934584 Longitude -106.71262685
(NAD 83 in decimal degrees to 5 decimal places)

Site Name EPNG's Line 1103	Site Type Existing steel natural gas pipeline
Date Release Discovered 11/23/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
F	02	26S	2E	Dona Ana

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe) Hydrostatic Test Water	Volume/Weight Released (provide units) 18,000 to 20,000 gallons approximately	Volume/Weight Recovered (provide units) Approximately 13,000 gallons. Recovered water on the ditch.

Cause of Release

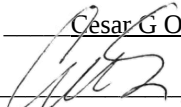
During Spike test project on the EPNG 1103 line, EPNG personnel was conducting drying activities after hydrotest was completed on section 1, two foam pigs were stuck on the line on a low section. A poly pig was used to release the foam pigs. Apparently, the line still had water from the hydrotest and when the pigs were released, they came out on the catch area with approximately 18,000 to 20,000 gallons of hydrotest water. Some water was contained on the catch basing ditch area but most of the water traveled approximately one half mile in total on the sloping side of Afton road approximately three feet wide on each side of the road. Pipeline was rinse prior to hydro test. There was no impact to any water body. Volume calculations were estimated based on size of ditch (15ftx20ftx6ft= 1800 cubic ft.= 13,338gallons) and the travel distance (2640ftx6ftx.05ft=792 cubic ft.= 5,861 gallons). Estimated total 13,338+5,861=19,199 gallons. Soil samples were collected from different impacted areas. No contamination is shown on the results.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Unauthorized release was greater than 25 barrels
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Left a voicemail for Brandon Powell at (505) 320 0200 on 11/23/20 at 10:26 am by Cesar G Ochoa Left a voicemail for Mike Bratcher at (575) 626 0857 on 11/23/20 at 11:04 am by Cesar G Ochoa Email to Mike Bratcher on 11/23 at 4:23 pm	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Cesar G Ochoa</u>	Title: <u>EHS Engineer II</u>
Signature: <u></u>	Date: <u>12/18/2020</u>
email: <u>cesar_ochoa@kindermorgan.com</u>	Telephone: <u>915-345-6605</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>21.8</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

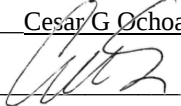
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Cesar G Ochoa Title: EHS Engineer IISignature:  Date: 4/30/2021email: cesar_ochoa@kindermorgan.com Telephone: 915-345-6605**OCD Only**

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Cesar G. Ochoa Title: EHS Engineer II
Signature:  Date: 4/30/2021
email: cesar_ochoa@kindermorgan.com Telephone: 915-345-66-50

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

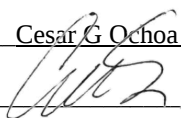
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

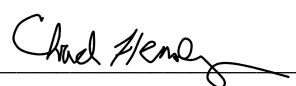
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Cesar G Ochoa Title: EHS Engineer II
Signature:  Date: 4/30/2021
email: cesar_ochoa@kindermorgan.com Telephone: 915-345-6605

OCD Only

Received by: Chad Hensley Date: 06/24/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 06/24/2021
Printed Name: Chad Hensley Title: Environmental Specialist Advanced



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APPENDIX B

Site Location Map

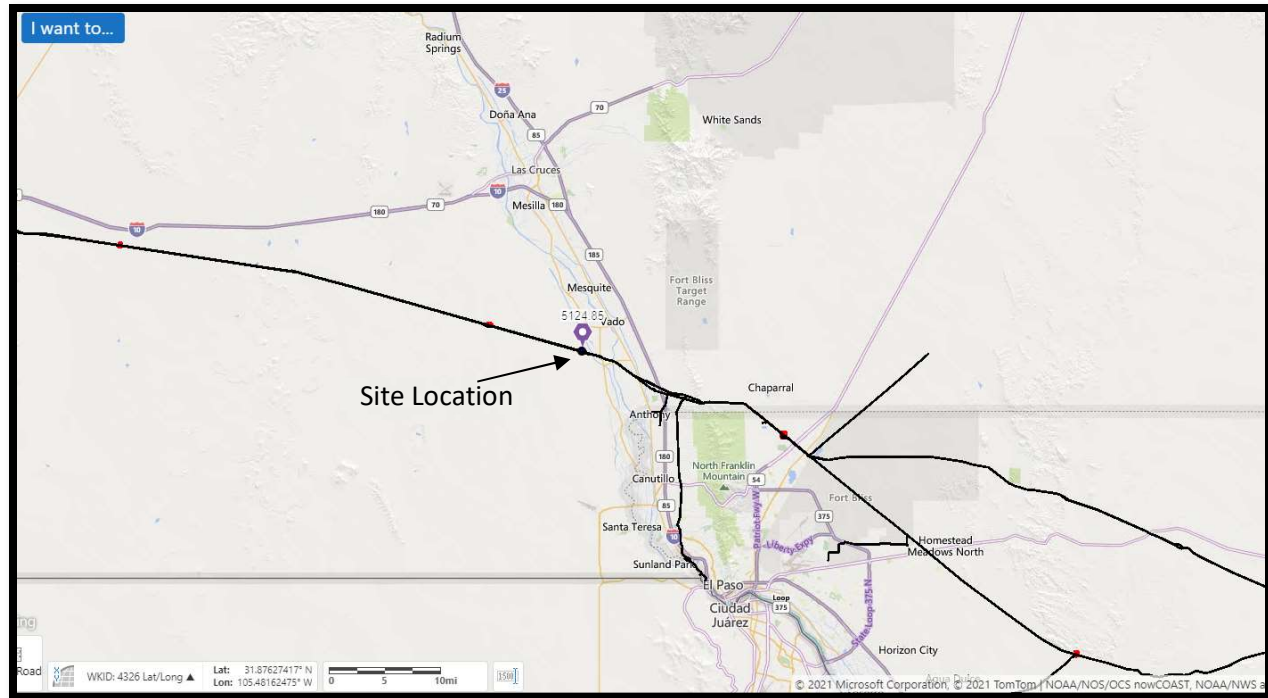


Figure 1. Site Location

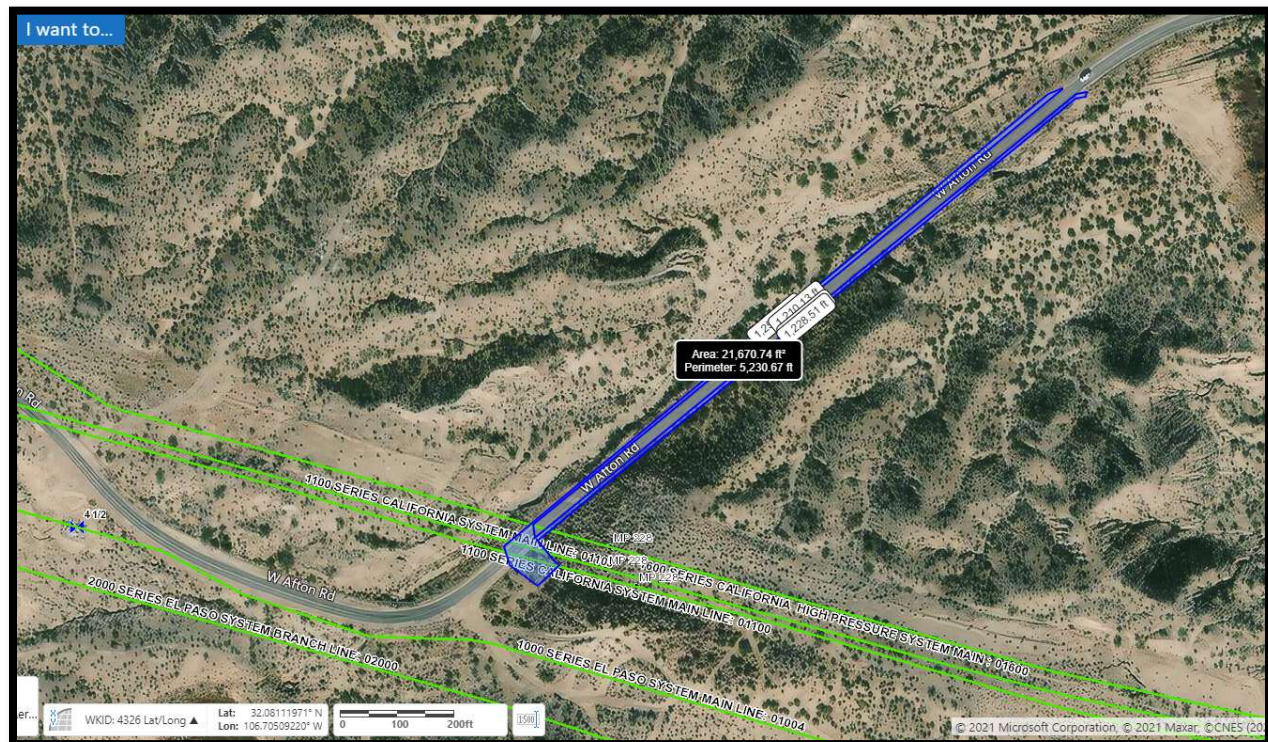


Figure 2. Impacted area

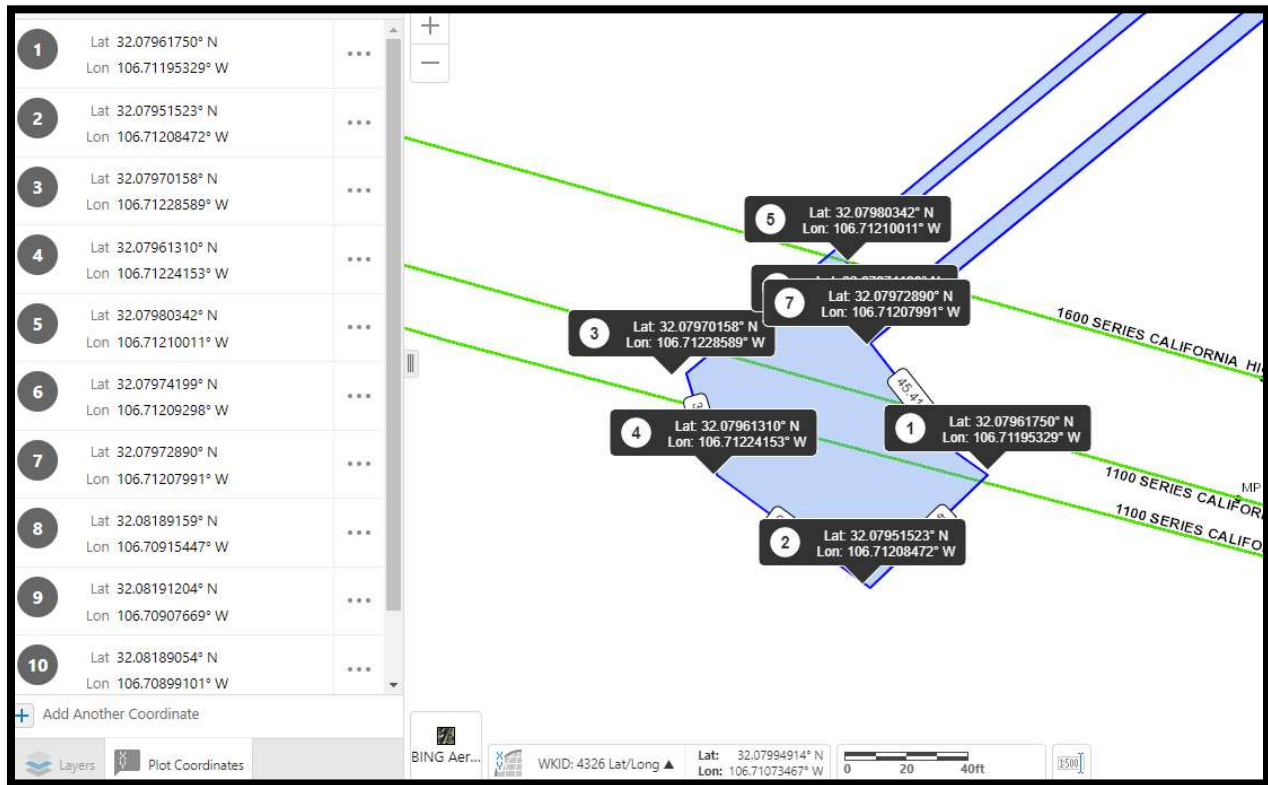


Figure 3. Impacted are with coordinates

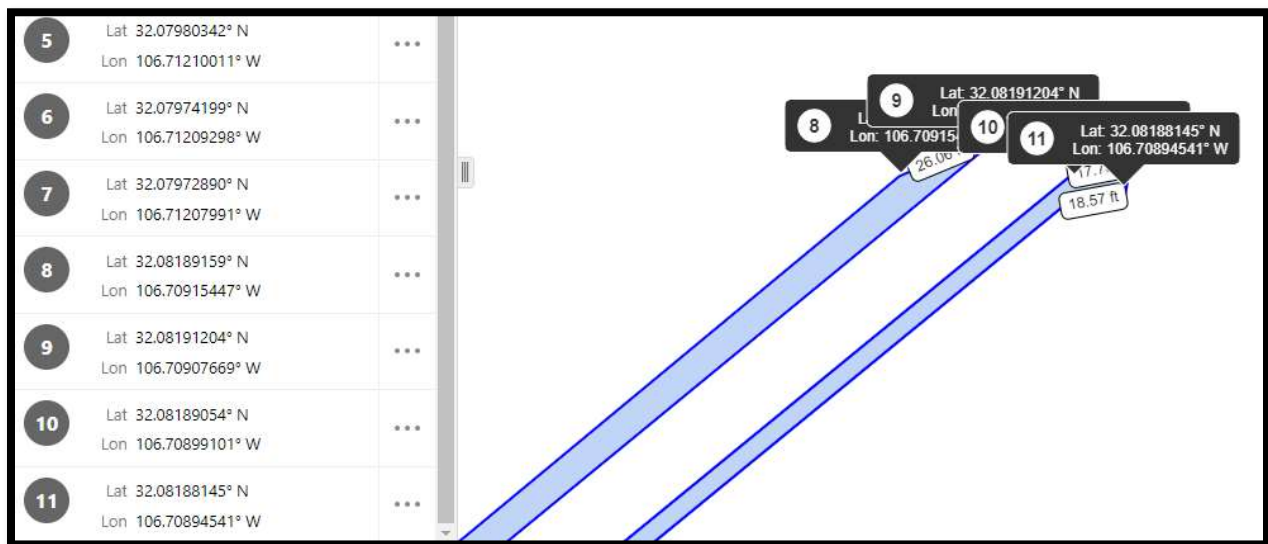


Figure 4. Impacted area with coordinated 2



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APPENDIX C

Depth to Water



Figure 5. Water well 1

USGS 320445106421001 MBOWN-331 26S.02E.02.223

Available data for this site SUMMARY OF ALL AVAILABLE DATA

Well Site

DESCRIPTION:

Latitude 32°04'45", Longitude 106°42'10" NAD27
 Dona Ana County, New Mexico , Hydrologic Unit 13030102
 Well depth: 147. feet
 Hole depth: 147. feet
 Land surface altitude: 3,820 feet above NGVD29.
 Well completed in "Rio Grande aquifer system" (S100RIOGRD) national aquifer.
 Well completed in "Santa Fe Group" (112SNTF) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1995-03-21	1995-03-21	1
Field/Lab water-quality samples	1995-03-21	2010-11-11	3
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Figure 5. Water well 1



USGS 320445106421001 MBOWN-331 26S.02E.02.223

Available data for this site

Groundwater: Field measurements

GO

Dona Ana County, New Mexico
Hydrologic Unit Code 13030102
Latitude 32°04'45", Longitude 106°42'10" NAD27
Land-surface elevation 3,820 feet above NGVD29
The depth of the well is 147 feet below land surface.
The depth of the hole is 147 feet below land surface.
This well is completed in the Rio Grande aquifer system
(S100RIOGRD) national aquifer.
This well is completed in the Santa Fe Group (112SNTF) local
aquifer.

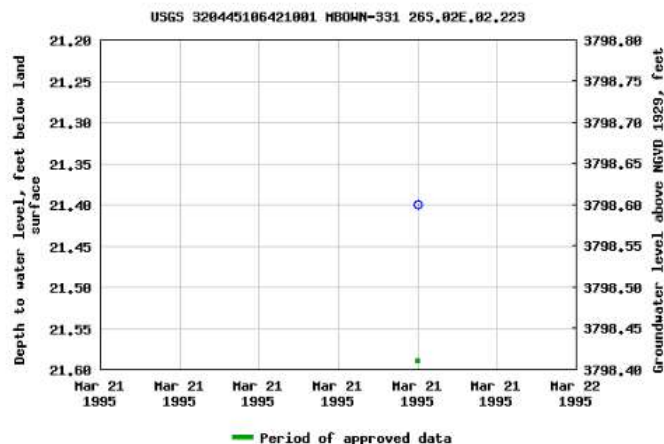
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

Figure 6. Water well 1 Depth to Water

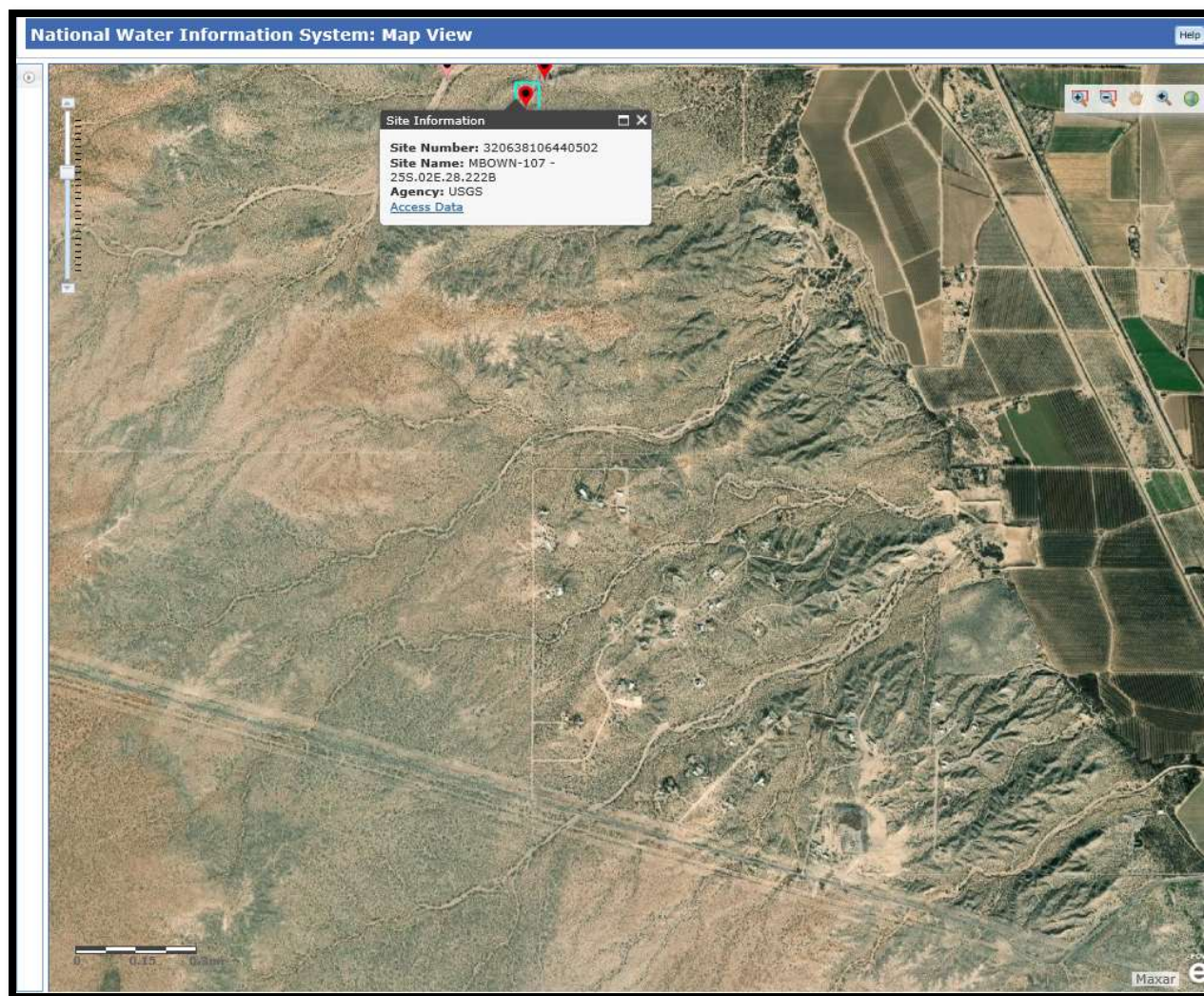


Figure 7. Water well 2 Depth to Water

**USGS 320638106440502 MBOWN-107 - 25S.02E.28.222B**Available data for this site **SUMMARY OF ALL AVAILABLE DATA** **Well Site****DESCRIPTION:**

Latitude 32°06'38", Longitude 106°44'05" NAD27
Dona Ana County, New Mexico, Hydrologic Unit 13030102
Well depth: 120 feet
Land surface altitude: 3,922 feet above NGVD29.
Well completed in "Rio Grande aquifer system" (S100RIOGRD) national aquifer.
Well completed in "Santa Fe Group" (112SNTF) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1984-02-16	2013-01-23	29
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

Figure 8. Water well 2 Depth to Water

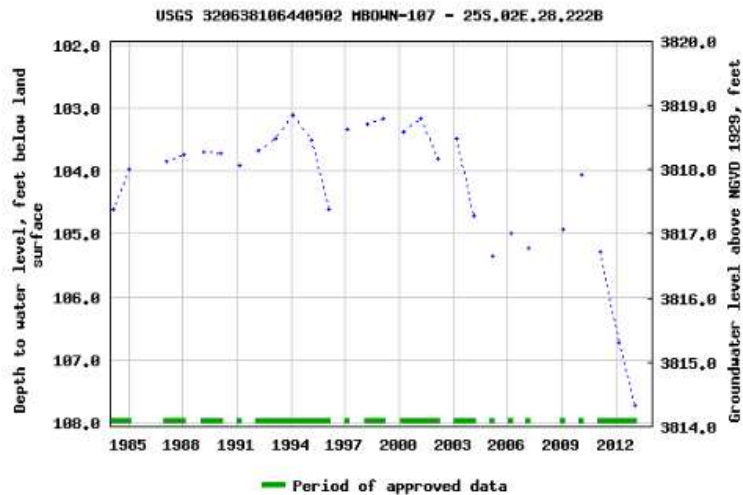
**USGS 320638106440502 MBOWN-107 - 25S.02E.28.222B**

Available data for this site

Groundwater: Field measurements

GO

Dona Ana County, New Mexico
Hydrologic Unit Code 13030102
Latitude 32°06'38", Longitude 106°44'05" NAD27
Land-surface elevation 3,922 feet above NGVD29
The depth of the well is 120 feet below land surface.
This well is completed in the Rio Grande aquifer system
(S100RIOGRD) national aquifer.
This well is completed in the Santa Fe Group (112SNTF) local
aquifer.

Output formats[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

Figure 9. Water well 2 Depth to Water



APPENDIX D

Well head Protection area/ Distance to Significant Water Sources

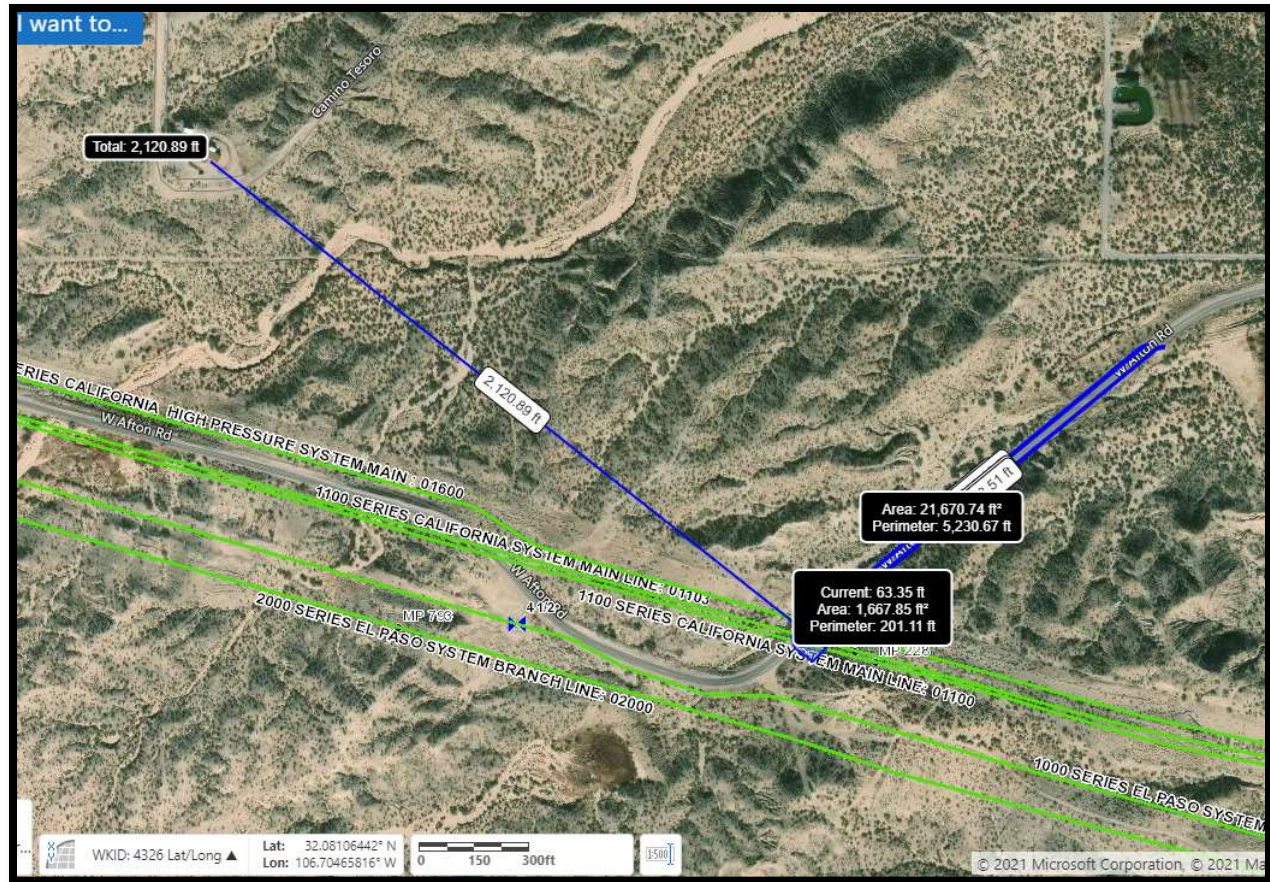


Figure 10. Distance to closest residential home (2,120 ft)

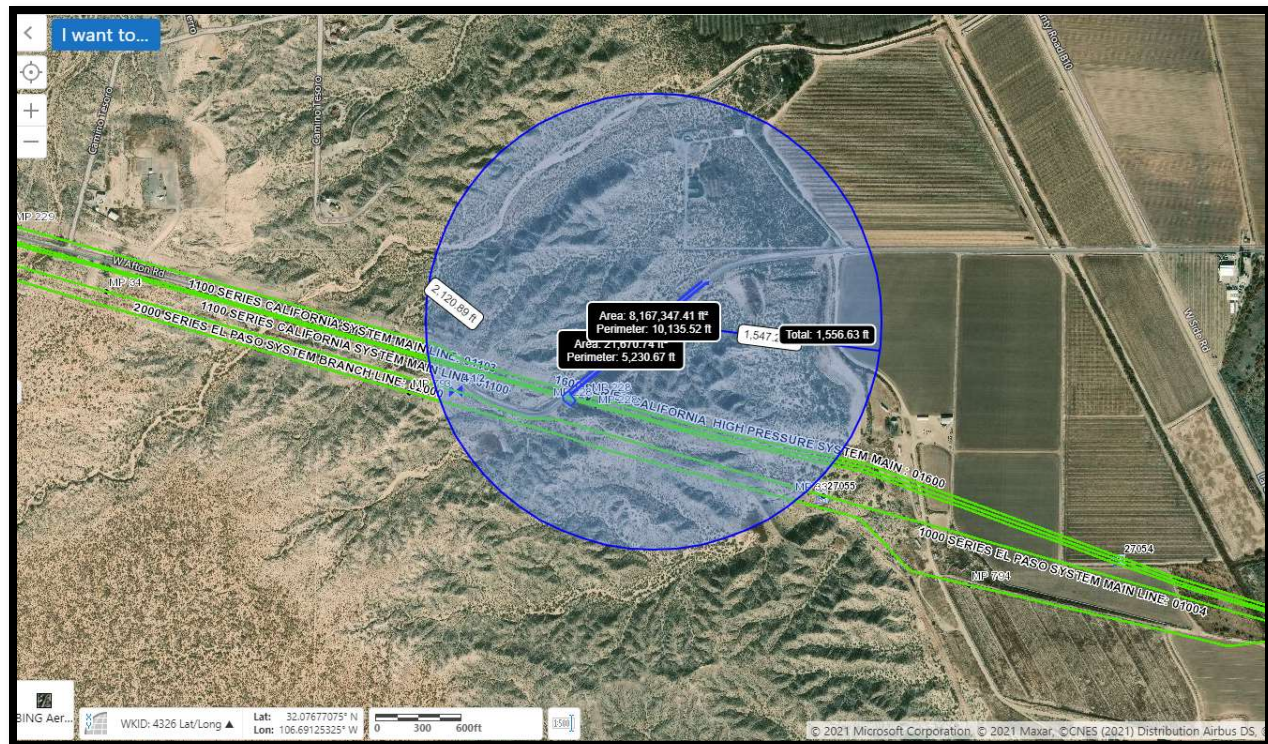


Figure 11. Site assessment checklist. There are no properties or water within 1500 ft.

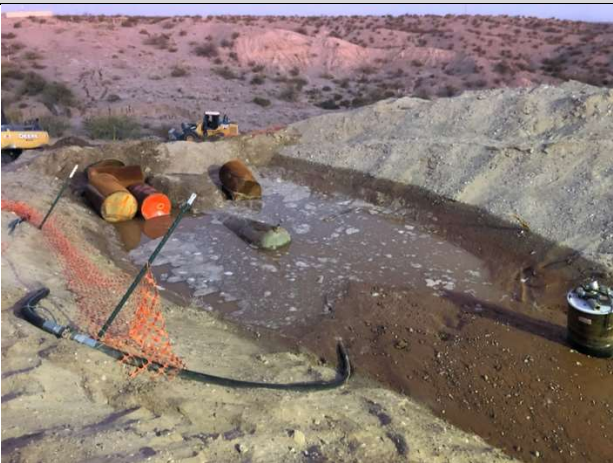


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APPENDIX E

Pictures



Photos	
Location: MP 227+5680 Description: Sloping side of the ditch filled with the released hydrostatic testing water.	
Location: MP 227+5680 Description: Contaminated soil at the base of the hill and Afton road sloping from the ditch.	
Location: MP 227+5680 Description: Contaminated soil adjacent to Afton road resulting from the spill.	



Location: MP 227+5680

Description: Contaminated soil sloping down the hill from the ditch to Afton road resulting from the spill.



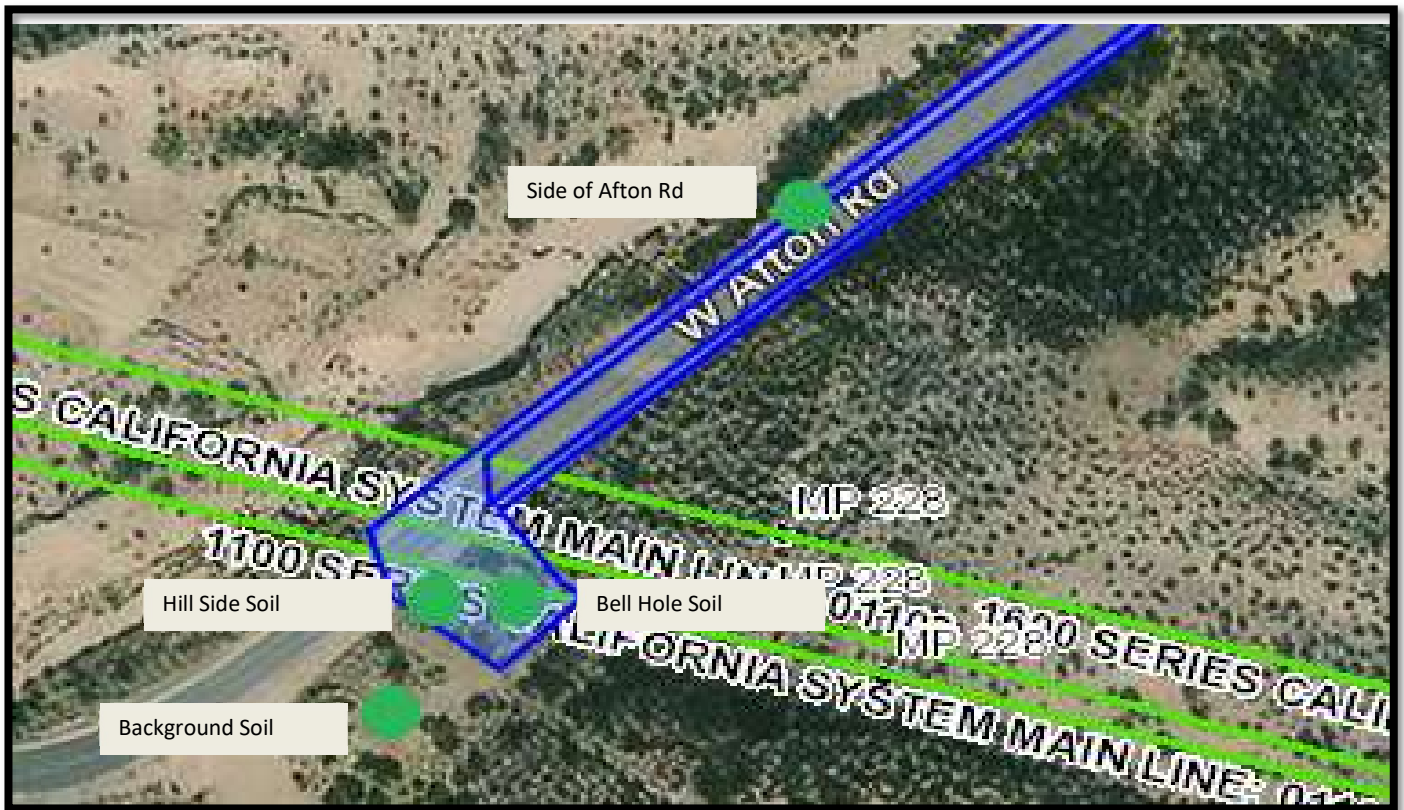


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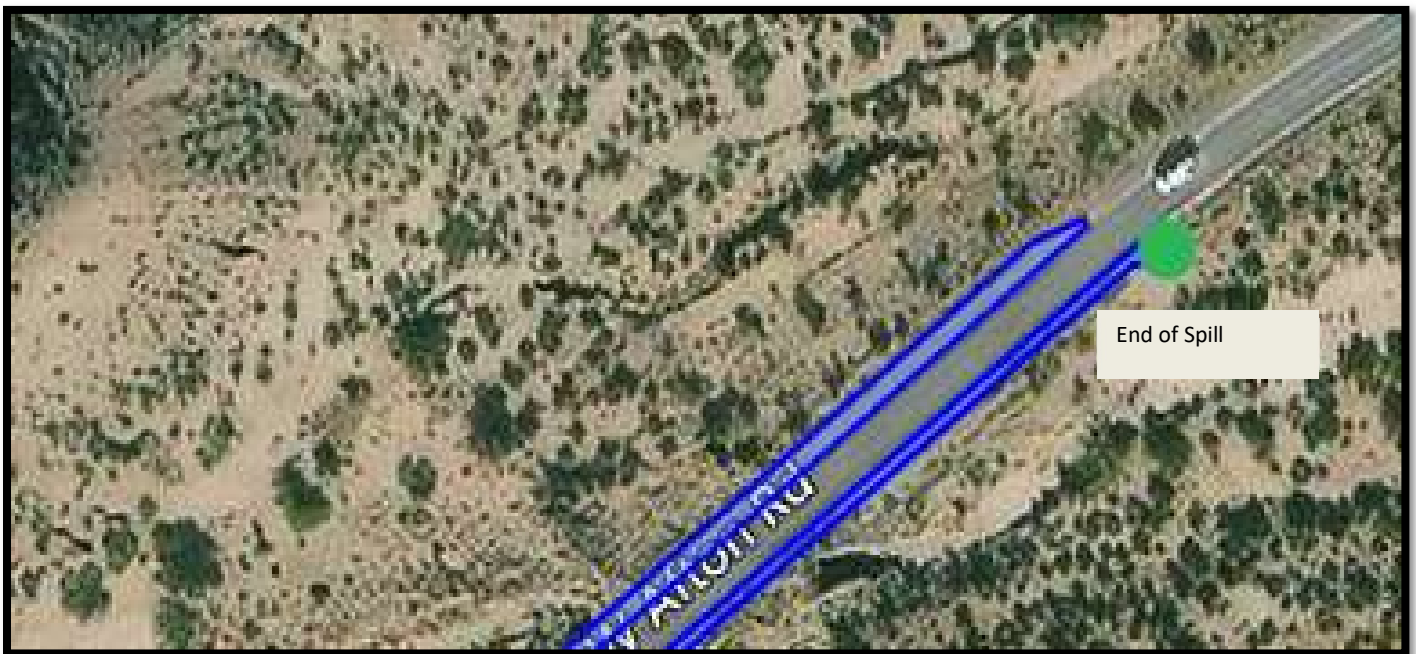
APPENDIX F

Sampling Location and Summary of Results Table

November 24, 2020



Sample Location 11/24/2020



Sample Location 11/24/2020



11/2/2025 PM

Sample Identification	Sample Date	Sample Depth (feet bgs)	Benzene				Toluene				Total Xylenes				CHLORIDE		C10-C28 DIESEL RANGE		C28-C40 OIL RANGE		TPH(GC/HD) LOW FRACTION GRO		GRO+DRO		Total TPH (GRO+DRO+MRO)		Chloride					TPH (GRO+DRO+MRO)					GRO+DRO					BTX					Benzene																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			8015D/GRO, 8260B, 8015				All results reported in milligrams per kilogram (mg/L)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</	

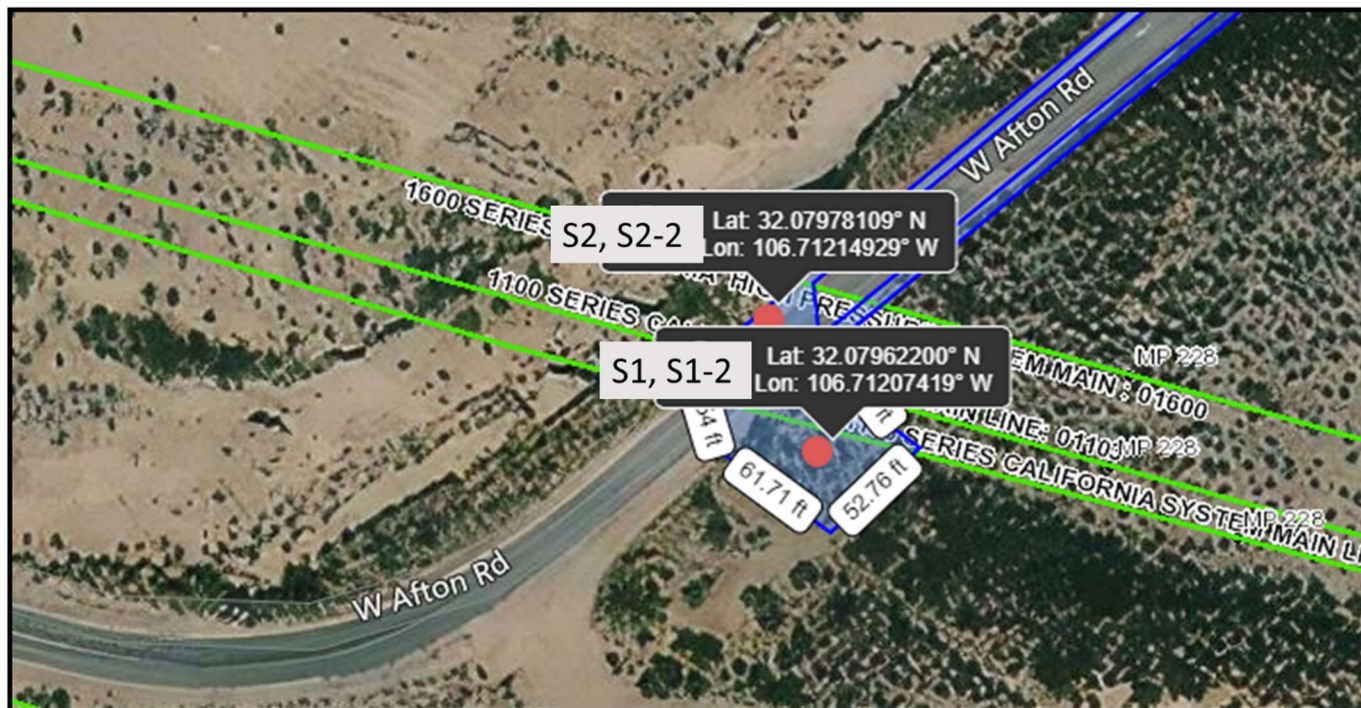
Table 1. Summary of Laboratory Results from sampling event completed on 11/24/2020



APPENDIX G

Sampling Location and Summary of Results Table

April 21, 2021



Sample Location 4/21/2021



Sample Location 4/21/2021



Sample Identification	Sample Date	Sample Depth (feet bgs)	8015D/GRO, 8260B, 8015										Table I - Closure Criteria for Soils Impacted by a Release <= 50 feet				
			Benzene	Ethylbenzene	Toluene	Total Xylenes	CHLORIDE	C10-C28 DIESEL RANGE	C28-C40 OIL RANGE	TPH(GC/FID) LOW FRACTION GRO	GRO+DRO	Total TPH (GRO+DRO+MRO)	Chloride	TPH (GRO+DRO+MRO)	GRO+DRO	BTEX	Benzene
			All results reported in milligrams per kilogram (mg/L)				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S1	4/21/2021	0.5	<0.000994	<0.000994	<0.00497	<0.00199	<10.0	<49.5	<49.5	<49.5	<49.5	<49.5	600	100	NA	50	10
S1-2	4/21/2021	1	<0.000990	<0.000990	<0.00495	<0.00198	14.6	<50.3	<50.3	<50.3	<50.3	<50.3	600	100	NA	50	10
S2	4/21/2021	0.5	<0.00100	<0.00100	<0.00502	<0.00201	<9.98	<50.2	<50.2	<50.2	<50.2	<50.2	600	100	NA	50	10
S2-2	4/21/2021	1	<0.000998	<0.000998	<0.004499	<0.00200	<10.1	<50.4	<50.4	<50.4	<50.4	<50.4	600	100	NA	50	10
S3	4/21/2021	0.5	<0.00100	<0.00100	<0.00500	<0.00200	<10.1	<49.9	<49.9	<49.9	<49.9	<49.9	600	100	NA	50	10
S3-2	4/21/2021	1	<0.00100	<0.00100	<0.00502	<0.00201	<10.2	<49.8	<49.8	<49.8	<49.8	<49.8	600	100	NA	50	10
S4	4/21/2021	0.5	<0.000994	<0.000994	<0.00497	<0.00199	<10.0	<49.9	<49.9	<49.9	<49.9	<49.9	600	100	NA	50	10
S4-4	4/21/2021	1	<0.00100	<0.00100	<0.00500	<0.00500	<9.94	<50.4	<50.4	<50.4	<50.4	<50.4	600	100	NA	50	10
Table I Limits	---	---	50				600	GRO+DRO				100					
	---	---	10	---	---	---	---	---	---	---	---	---					

Table 2. Summary of Laboratory Results from sampling event completed on 4/21/2021



Appendix H
Laboratory Results
11/24/2020
4/21/2021

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 26490

CONDITIONS

Operator: EL PASO NATURAL GAS CO 2 N Nevada St Colorado Springs, CO 80903	OGRID: 7046
	Action Number: 26490
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	6/24/2021